

Envirocon Inc  
Monthly soil  
vapor extraction  
report

APR

SUPERFUND

ENVIROCON, INC.

101 INTERNATIONAL WAY  
POST OFFICE BOX 8243  
MISSOULA, MONTANA 59807  
TELEPHONE (406) 523-1150  
FAX (406) 523-1182

ENVIROCON, INC.

PLEASE RETURN

April 1, 1992  
ENV #0101

Solid and Hazardous Waste Bureau  
Montana Department of Health and  
Environmental Sciences  
Cogswell Building  
Helena, Montana 59620

Attention: Mr. John Wadhams

**Subject: Monthly Soil Vapor Extraction Report**

Dear John:

Burlington Northern Railroad, through its contractor Envirocon, Inc., installed and began operating four soil vapor extraction (SVE) systems during February 1992. This monthly report includes the results of soil samples taken during installation of the SVE wells, air sample results for the influent and effluent air streams of the carbon units, and tables totalling the mass of recovered volatile organic compounds (VOCs) through the period that sample results are available. Sample results are available through March 1, 1992.

Appendix A contains the results of samples taken during the installation of 13 SVE wells during early February 1992. The SVE wells are designated VE-1 through VE-13. Wells VE-1 through VE-3 are located at the Waste Water Treatment Plant (WWTP) compound, around the grit chambers. Wells VE-4 through VE-6 are located around the in-line grit chamber. Wells VE-7 through VE-10 are located on the cinder pile, east of the cinder pile lagoon. Wells VE-11 and VE-12 are located adjacent to the Locomotive Shop manways. Well VE-13 is located adjacent to the transfer-pit manway. Additional SVE wells were drilled in the cinder pile lagoon and inside the Electric Shop during early March 1992. The results of soil samples collected from these wells are not available at this time. The results of these soil samples, well logs

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TABLE 1.0

## SVE SAMPLE RESULTS

| Sample Number | Sample Date | SVE System          | Total VOCs (mg/m3)       |                      |                         |
|---------------|-------------|---------------------|--------------------------|----------------------|-------------------------|
|               |             |                     | Influent to Carbon Units | Between Carbon Units | Discharge to Atmosphere |
| 140101-SG-068 | 2/7/92      | WWTP Sump           | 282                      |                      |                         |
| 140101-SG-069 | 2/8/92      | WWTP Sump           |                          |                      | <30                     |
| 140101-SG-070 | 2/8/92      | WWTP Sump           |                          | <30                  |                         |
| 140101-SG-071 | 2/10/92     | WWTP Sump           | 414                      |                      |                         |
| 140101-SG-072 | 2/27/92     | Locomotive Shop     | 681                      |                      |                         |
| 140101-SG-073 | 2/27/92     | Inline Grit Chamber | 2080                     |                      |                         |
| 140101-SG-074 | 2/27/92     | WWTP Compound       | 227                      |                      |                         |
| 140101-SG-075 | 2/28/92     | WWTP Sump           |                          |                      | <30                     |
| 140101-SG-076 | 2/28/92     | WWTP Sump           |                          | <30                  |                         |
| 140101-SG-077 | 2/28/92     | WWTP Sump           | 240                      |                      |                         |
| 140101-SG-078 | 2/28/92     | WWTP Compound       |                          | <30                  |                         |
| 140101-SG-079 | 2/28/92     | WWTP Compound       |                          |                      | <30                     |
| 140101-SG-080 | 2/28/92     | Inline Grit Chamber |                          |                      | <30                     |
| 140101-SG-081 | 2/28/92     | Inline Grit Chamber |                          | <30                  |                         |
| 140101-SG-082 | 2/28/92     | Locomotive Shop     |                          |                      | <30                     |
| 140101-SG-083 | 2/28/92     | Locomotive Shop     |                          | <30                  |                         |
| 140101-SG-084 | 3/1/92      | WWTP Compound       | 198                      |                      |                         |
| 140101-SG-085 | 3/1/92      | Inline Grit Chamber | 1360                     |                      |                         |
| 140101-SG-086 | 3/1/92      | Locomotive Shop     | 358                      |                      |                         |



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Mr. John Wadhams  
April 1, 1992  
Page Two

for all SVE wells, and maps showing the locations of all SVE wells will be provided in the next monthly report.

Table 1.0 summarizes air sample results for samples taken between February 7 and March 1, 1992. The values shown represent total volatile responses. No individual VOCs were detected in any of the samples taken between carbon units or in the discharge to the atmosphere. The concentrations of individual VOCs detected in the influent samples are shown on the laboratory results compiled in Appendix B.

Tables 2.0 through 5.0 summarize the mass of recovered VOCs for each operating SVE system through early March 1992. This reporting period only includes four days of recovery at the in-line grit chamber and the Locomotive Shop manways, seven days of recovery at the WWTP sump, and nine days of recovery at the WWTP compound. Recovery for this reporting period was 146 pounds of total VOCs. This includes 94.6 pounds of chlorinated solvents, as identified by EPA Method 524.2, and 51.4 pounds of VOCs not specifically identified by EPA Method 524.2. Energy Laboratories, Inc. has indicated that the VOCs not specifically identified by Method 524.2 are C-9 to C-12 branch-chain hydrocarbons, typical of diesel fuel.

Please contact me in Livingston if you have any questions or comments.

Sincerely,

ENVIROCON INC.



John Mills  
Office Manager



Kris Kok  
Project Manager

JPM\pm

cc: Mel Burda  
Dennis Iverson  
Steve Pilcher  
Joe Michaletz  
Envirocon, Inc.

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**TABLE 2.0**  
**IN LINE GRIT CHAMBER SVE RESULTS**

| Dates                            | Number of Days | Extraction Risers In Use | Carbon Units In Use | Compounds Recovered | Sample Results (mg/m3) | Air Velocity (ft/min) | Air Flow Rate (ft3/min) | VOCs Removed (#/day) | VOCs Removed (#/period) | Total VOCs (#/period) |
|----------------------------------|----------------|--------------------------|---------------------|---------------------|------------------------|-----------------------|-------------------------|----------------------|-------------------------|-----------------------|
| 2/26-2/28/92                     | 1.9            | A,B,C,D                  | B,I                 | Total VOCs          | 2080                   | 5490                  | 119.7                   | 22.7                 |                         | 43.0                  |
|                                  | 1.9            |                          |                     | CB                  | 800                    |                       | 119.7                   | 8.7                  | 16.6                    |                       |
|                                  | 1.9            |                          |                     | 1,2-DCB             | 200                    |                       | 119.7                   | 2.2                  | 4.1                     |                       |
|                                  | 1.9            |                          |                     | 1,4-DCB             | 32.5                   |                       | 119.7                   | 0.4                  | 0.7                     |                       |
|                                  | 1.9            |                          |                     | 1,3-DCB             | 16.2                   |                       | 119.7                   | 0.2                  | 0.3                     |                       |
|                                  | 1.9            |                          |                     | 2-CT                | 10.9                   |                       | 119.7                   | 0.1                  | 0.2                     |                       |
|                                  | 1.9            |                          |                     | PCE                 | 5.1                    |                       | 119.7                   | 0.1                  | 0.1                     |                       |
|                                  | 1.9            |                          |                     | Xylene              | 4.5                    |                       | 119.7                   | 0.0                  | 0.1                     |                       |
|                                  | 1.9            |                          |                     | cis-DCE             | 4.4                    |                       | 119.7                   | 0.0                  | 0.1                     |                       |
| 2/29-3/2/92                      | 2              | C,D                      | B,I                 | Total VOCs          | 1360                   | 5670                  | 123.6                   | 15.3                 |                         | 30.6                  |
|                                  | 2              |                          |                     | CB                  | 710                    |                       | 123.6                   | 8.0                  | 16.0                    |                       |
|                                  | 2              |                          |                     | 1,2-DCB             | 234                    |                       | 123.6                   | 2.6                  | 5.3                     |                       |
|                                  | 2              |                          |                     | 1,4-DCB             | 33                     |                       | 123.6                   | 0.4                  | 0.7                     |                       |
|                                  | 2              |                          |                     | 1,3-DCB             | 11                     |                       | 123.6                   | 0.1                  | 0.2                     |                       |
|                                  | 2              |                          |                     | 2-CT                | 12                     |                       | 123.6                   | 0.1                  | 0.3                     |                       |
|                                  | 2              |                          |                     | PCE                 | 2.5                    |                       | 123.6                   | 0.0                  | 0.1                     |                       |
|                                  | 2              |                          |                     | 1,2,4-TMB           | 2.5                    |                       | 123.6                   | 0.0                  | 0.1                     |                       |
| Total VOCs Removed (2/26-3/2/92) |                |                          |                     |                     |                        |                       |                         |                      | 44.8                    | 73.6                  |

Note:

Total VOCs = Total Volatile Organic Compounds

CB = Chlorobenzene

1,2-DCB = 1,2-Dichlorobenzene

1,4-DCB = 1,4-Dichlorobenzene

1,3-DCB = 1,3-Dichlorobenzene

2-CT = 2-Chlorotoluene

PCE = Tetrachloroethene

cis-DCE = cis-1,2-Dichloroethene

1,2,4-TMB = 1,2,4-Trimethylbenzene





TABLE 3.0

## LOCOMOTIVE SHOP SVE RESULTS

| Dates                            | Number of Days | Extraction Risers In Use | Carbon Units In Use | Compounds Recovered | Sample Results (mg/m3) | Air Velocity (ft/min) | Air Flow Rate (ft3/min) | VOCs Removed (#/day) | VOCs Removed (#/period) | Total VOCs (#/period) |     |
|----------------------------------|----------------|--------------------------|---------------------|---------------------|------------------------|-----------------------|-------------------------|----------------------|-------------------------|-----------------------|-----|
| 2/26-2/28/92                     | 1.9            | A,B,C,D,E                | H,M                 | Total VOCs          | 681                    | 5850                  | 127.5                   | 7.9                  | 13.7                    | 15.0                  |     |
|                                  | 1.9            |                          |                     | PCE                 | 620                    |                       | 127.5                   | 7.2                  |                         |                       |     |
|                                  | 1.9            |                          |                     | TCE                 | 10                     |                       | 127.5                   | 0.1                  |                         |                       | 0.2 |
|                                  | 1.9            |                          |                     | cis-DCE             | 25                     |                       | 127.5                   | 0.3                  |                         |                       | 0.6 |
| 2/29-3/2/92                      | 2              | A,B,C,D,E                | H,M                 | Total VOCs          | 358                    | 5850                  | 127.5                   | 4.2                  | 8.1                     | 8.3                   |     |
|                                  | 2              |                          |                     | PCE                 | 350                    |                       | 127.5                   | 4.1                  |                         |                       | 0.1 |
|                                  | 2              |                          |                     | TCE                 | 3.1                    |                       | 127.5                   | 0.0                  |                         |                       | 0.1 |
|                                  | 2              |                          |                     | cis-DCE             | 5.1                    |                       | 127.5                   | 0.1                  |                         |                       | 0.1 |
| Total VOCs Removed (2/26-3/2/92) |                |                          |                     |                     |                        |                       |                         |                      | 22.8                    | 23.3                  |     |

Note:

Total VOCs = Total Volatile Organic Compounds

PCE = Tetrachloroethene

TCE = Trichloroethene

cis-DCE = cis-1,2-Dichloroethene



TABLE 4.0

## MAIN GRIT CHAMBER COMPOUND SVE RESULTS

| Dates                            | Number of Days | Extraction Risers In Use | Carbon Units In Use | Compounds Recovered | Sample Results (mg/m3) | Air Velocity (ft/min) | Air Flow Rate (ft3/min) | VOCs Removed (#/day) | VOCs Removed (#/period) | Total VOCs (#/period) |
|----------------------------------|----------------|--------------------------|---------------------|---------------------|------------------------|-----------------------|-------------------------|----------------------|-------------------------|-----------------------|
| 2/26-2/28/92                     | 1.9            | A,B,C                    | A,Q                 | Total VOCs          | 227                    | 5670                  | 123.6                   | 2.6                  | 4.9                     |                       |
|                                  | 1.9            |                          |                     | cis-DCE             | 150                    |                       | 123.6                   | 1.7                  |                         | 3.2                   |
|                                  | 1.9            |                          |                     | PCE                 | 32                     |                       | 123.6                   | 0.4                  |                         | 0.7                   |
|                                  | 1.9            |                          |                     | TCE                 | 30                     |                       | 123.6                   | 0.3                  |                         | 0.6                   |
|                                  | 1.9            |                          |                     | CB                  | 15                     |                       | 123.6                   | 0.2                  |                         | 0.3                   |
| 2/29-3/6/92                      | 7              | A,B,C                    | A,Q                 | Total VOCs          | 198                    | 5700                  | 124.3                   | 2.2                  | 15.7                    |                       |
|                                  | 7              |                          |                     | cis-DCE             | 96                     |                       | 124.3                   | 1.1                  |                         | 7.6                   |
|                                  | 7              |                          |                     | PCE                 | 29                     |                       | 124.3                   | 0.3                  |                         | 2.3                   |
|                                  | 7              |                          |                     | TCE                 | 27                     |                       | 124.3                   | 0.3                  |                         | 2.1                   |
|                                  | 7              |                          |                     | CB                  | 14                     |                       | 124.3                   | 0.2                  |                         | 1.1                   |
| Total VOCs Removed (2/26-3/2/92) |                |                          |                     |                     |                        |                       |                         |                      | 18.0                    | 20.5                  |

## Note:

Total VOCs = Total Volatile Organic Compounds

cis-DCE = cis-1,2-Dichloroethene

PCE = Tetrachloroethene

TCE = Trichloroethene

CB = Chlorobenzene



TABLE 5.0

## WWTP SUMP SVE RESULTS

| Dates   | Number of Days | Extraction Risers In Use | Carbon Units In Use | Compounds Recovered | Sample Results (mg/m3) | Air Velocity (ft/min) | Air Flow Rate (ft3/min) | VOCs Removed (#/day) | VOCs Removed (#/period) | Total VOCs (#/period) |
|---|----------------|--------------------------|---------------------|---------------------|------------------------|-----------------------|-------------------------|----------------------|-------------------------|-----------------------|
| 2/7-2/8/92                                    | 1.5            | A,B,C                    | J,G                 | Total VOCs          | 282                    | 2151                  | 187.8                   | 4.8                  |                         | 7.2                   |
|   | 1.5            |                          |                     | cis-DCE             | 112                    |                       | 187.8                   | 1.9                  | 2.9                     |                       |
|   | 1.5            |                          |                     | trans-DCE           | 3.5                    |                       | 187.8                   | 0.1                  | 0.1                     |                       |
|   | 1.5            |                          |                     | CB                  | 3.2                    |                       | 187.8                   | 0.1                  | 0.1                     |                       |
|   | 1.5            |                          |                     | 2-CT                | 16                     |                       | 187.8                   | 0.3                  | 0.4                     |                       |
| 2/9-2/10/92                                   | 1.6            | A,B,C                    | J,G                 | Total VOCs          | 414                    | 2151                  | 187.8                   | 7.1                  |                         | 11.3                  |
|   | 1.6            |                          |                     | cis-DCE             | 75                     |                       | 187.8                   | 1.3                  | 2.1                     |                       |
|   | 1.6            |                          |                     | PCE                 | 3.7                    |                       | 187.8                   | 0.1                  | 0.1                     |                       |
|   | 1.6            |                          |                     | 2-CT                | 29                     |                       | 187.8                   | 0.5                  | 0.8                     |                       |
|   | 1.6            |                          |                     | CB                  | 6.2                    |                       | 187.8                   | 0.1                  | 0.2                     |                       |
| 2/24-2/28/92                                  | 3.9            | A,B,C                    | J,G                 | Total VOCs          | 240                    | 1350                  | 117.9                   | 2.6                  |                         | 10.0                  |
|   | 3.9            |                          |                     | cis-DCE             | 47                     |                       | 117.9                   | 0.5                  | 2.0                     |                       |
|   | 3.9            |                          |                     | PCE                 | 3.4                    |                       | 117.9                   | 0.0                  | 0.1                     |                       |
|   | 3.9            |                          |                     | 2-CT                | 15                     |                       | 117.9                   | 0.2                  | 0.6                     |                       |
|   | 3.9            |                          |                     | CB                  | 5.2                    |                       | 117.9                   | 0.1                  | 0.2                     |                       |
| Total VOCs Removed (2/7-2/10/92 2/24-2/28/92) |                |                          |                     |                     |                        |                       |                         |                      | 9.5                     | 28.6                  |

## Note:

Total VOCs = Total Volatile Organic Compounds

cis-DCE = cis-1,2-Dichloroethene

trans-DCE = trans-1,2-Dichloroethene

CB = Chlorobenzene

2-CT = 2-Chlorotoluene

PCE = Tetrachloroethene





## **APPENDIX A**







# ENERGY LABORATORIES, INC.

P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325  
LABORATORY REPORT FAX (406) 252-6069 • 1-800-735-4489

11/22/92

TO: Envirocon, Inc.  
ADDRESS: P.O. Box 1154  
Livingston, MT 59047

LAB NO.: 92-5048  
DATE: 02/20/92 rh

## SOIL ANALYSIS

Livingston/BN  
140101-SO-304  
Sampled 02/03/92 @ 1155  
Submitted 02/04/92  
Analyzed 02/14/92

RECEIVED  
FEB 21 1992  
33' next to junction  
VE-1

ENVIROCON, Inc.  
Livingston, Mt.

## CONSTITUENT

ug/kg

### Purgeable Halocarbons (EPA Method 8260)

|                           |       |
|---------------------------|-------|
| Bromodichloromethane      | < 5.0 |
| Bromoform                 | < 5.0 |
| Bromomethane              | < 5.0 |
| Carbon tetrachloride      | < 5.0 |
| Chlorobenzene             | 8.8   |
| Chloroethane              | < 5.0 |
| 2-Chloroethylvinyl ether  | < 5.0 |
| 2-Chlorotoluene           | 23    |
| Chloroform                | < 5.0 |
| Chloromethane             | < 5.0 |
| Dibromochloromethane      | < 5.0 |
| 1,2-Dichlorobenzene       | < 5.0 |
| 1,3-Dichlorobenzene       | 5.5   |
| 1,4-Dichlorobenzene       | 45    |
| 1,1-Dichloroethane        | < 5.0 |
| 1,2-Dichloroethane        | < 5.0 |
| 1,1-Dichloroethene        | < 5.0 |
| cis-1,2-Dichloroethene    | < 5.0 |
| trans-1,2-Dichloroethene  | < 5.0 |
| 1,2-Dichloropropane       | < 5.0 |
| cis-1,3-Dichloropropene   | < 5.0 |
| trans-1,3-Dichloropropene | < 5.0 |
| Methylene chloride        | < 5.0 |
| 1,1,2,2-Tetrachloroethane | < 5.0 |
| Tetrachloroethene         | < 5.0 |
| 1,1,1-Trichloroethane     | < 5.0 |
| 1,1,2-Trichloroethane     | < 5.0 |
| Trichloroethene           | < 5.0 |
| Trichlorofluoromethane    | < 5.0 |
| Vinyl chloride            | < 5.0 |
| Dichlorodifluoromethane   | < 5.0 |

NOTE: This analysis is equivalent to EPA Methods 601/8010.





# ENERGY LABORATORIES, INC.

P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325  
LABORATORY REPORT FAX (406) 252-6069 • 1-800-735-4489

TO: Envirocon, Inc.  
ADDRESS: P.O. Box 1154  
Livingston, MT 59047

LAB NO.: 92-5049  
DATE: 02/20/92 rh

## SOIL ANALYSIS

Livingston/BN  
140101-SO-305 VE 310  
Sampled 02/03/92 @ 1430  
Submitted 02/04/92  
Analyzed 02/13/92

RECEIVED

FEB 21 1992

ENVIROCON, Inc.  
Livingston, MT

## CONSTITUENT

ug/kg

### Purgeable Halocarbons (EPA Method 8260)

|                           |       |
|---------------------------|-------|
| Bromodichloromethane      | < 5.0 |
| Bromoform                 | < 5.0 |
| Bromomethane              | < 5.0 |
| Carbon tetrachloride      | < 5.0 |
| Chlorobenzene             | < 5.0 |
| Chloroethane              | < 5.0 |
| 2-Chloroethylvinyl ether  | < 5.0 |
| 2-Chlorotoluene           | < 5.0 |
| Chloroform                | < 5.0 |
| Chloromethane             | < 5.0 |
| Dibromochloromethane      | < 5.0 |
| 1,2-Dichlorobenzene       | < 5.0 |
| 1,3-Dichlorobenzene       | < 5.0 |
| 1,4-Dichlorobenzene       | < 5.0 |
| 1,1-Dichloroethane        | < 5.0 |
| 1,2-Dichloroethane        | < 5.0 |
| 1,1-Dichloroethene        | < 5.0 |
| cis-1,2-Dichloroethene    | < 5.0 |
| trans-1,2-Dichloroethene  | < 5.0 |
| 1,2-Dichloropropane       | < 5.0 |
| cis-1,3-Dichloropropene   | < 5.0 |
| trans-1,3-Dichloropropene | < 5.0 |
| Methylene chloride        | < 5.0 |
| 1,1,2,2-Tetrachloroethane | < 5.0 |
| Tetrachloroethene         | < 5.0 |
| 1,1,1-Trichloroethane     | < 5.0 |
| 1,1,2-Trichloroethane     | < 5.0 |
| Trichloroethene           | < 5.0 |
| Trichlorofluoromethane    | < 5.0 |
| Vinyl chloride            | < 5.0 |
| Dichlorodifluoromethane   | < 5.0 |

NOTE: This analysis is equivalent to EPA Methods 601/8010.





# ENERGY LABORATORIES, INC.

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LABORATORY REPORT FAX (406) 252-6069 • 1-800-735-4489

m 2/2/92

TO: Envirocon, Inc.  
ADDRESS: P.O. Box 1154  
Livingston, MT 59047

LAB NO.: 92-5050 dup  
DATE: 02/20/92 rh

## QUALITY ASSURANCE - DUPLICATE ANALYSIS

Livingston/BN  
140101-SO-306  
Sampled 02/03/92 @ 1520  
Submitted 02/04/92  
Analyzed 02/13/92

VE 2  
20

RECEIVED  
FEB 21 1992

ENVIROCON, Inc.  
Livingston, MT.

## CONSTITUENT

ug/kg

### Purgeable Halocarbons (EPA Method 8260)

|                           |       |
|---------------------------|-------|
| Bromodichloromethane      | < 5.0 |
| Bromoform                 | < 5.0 |
| Bromomethane              | < 5.0 |
| Carbon tetrachloride      | < 5.0 |
| Chlorobenzene             | < 5.0 |
| Chloroethane              | < 5.0 |
| 2-Chloroethylvinyl ether  | < 5.0 |
| 2-Chlorotoluene           | < 5.0 |
| Chloroform                | < 5.0 |
| Chloromethane             | < 5.0 |
| Dibromochloromethane      | < 5.0 |
| 1,2-Dichlorobenzene       | < 5.0 |
| 1,3-Dichlorobenzene       | < 5.0 |
| 1,4-Dichlorobenzene       | 5.5   |
| 1,1-Dichloroethane        | < 5.0 |
| 1,2-Dichloroethane        | < 5.0 |
| 1,1-Dichloroethene        | < 5.0 |
| cis-1,2-Dichloroethene    | < 5.0 |
| trans-1,2-Dichloroethene  | < 5.0 |
| 1,2-Dichloropropane       | < 5.0 |
| cis-1,3-Dichloropropene   | < 5.0 |
| trans-1,3-Dichloropropene | < 5.0 |
| Methylene chloride        | < 5.0 |
| 1,1,2,2-Tetrachloroethane | < 5.0 |
| Tetrachloroethene         | < 5.0 |
| 1,1,1-Trichloroethane     | < 5.0 |
| 1,1,2-Trichloroethane     | < 5.0 |
| Trichloroethene           | < 5.0 |
| Trichlorofluoromethane    | < 5.0 |
| Vinyl chloride            | < 5.0 |
| Dichlorodifluoromethane   | < 5.0 |

NOTE: This analysis is equivalent to EPA Methods 601/8010.





# ENERGY LABORATORIES, INC.

P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325  
LABORATORY REPORT FAX (406) 252-6069 • 1-800-735-4489

m 2/2/92

TO: Envirocon, Inc.  
ADDRESS: P.O. Box 1154  
Livingston, MT 59047

LAB NO.: 92-5050  
DATE: 02/20/92 rh

## SOIL ANALYSIS

Livingston/BN  
140101-SO-306  
Sampled 02/03/92 @ 1520  
Submitted 02/04/92  
Analyzed 02/13/92

VE-31  
20

RECEIVED  
FEB 21 1992  
ENVIROCON, Inc.  
Livingston, Mt.

## CONSTITUENT

ug/kg

### Purgeable Halocarbons (EPA Method 8260)

|                           |      |
|---------------------------|------|
| Bromodichloromethane      | <5.0 |
| Bromoform                 | <5.0 |
| Bromomethane              | <5.0 |
| Carbon tetrachloride      | <5.0 |
| Chlorobenzene             | <5.0 |
| Chloroethane              | <5.0 |
| 2-Chloroethylvinyl ether  | <5.0 |
| 2-Chlorotoluene           | <5.0 |
| Chloroform                | <5.0 |
| Chloromethane             | <5.0 |
| Dibromochloromethane      | <5.0 |
| 1,2-Dichlorobenzene       | <5.0 |
| 1,3-Dichlorobenzene       | <5.0 |
| 1,4-Dichlorobenzene       | 6.6  |
| 1,1-Dichloroethane        | <5.0 |
| 1,2-Dichloroethane        | <5.0 |
| 1,1-Dichloroethene        | <5.0 |
| cis-1,2-Dichloroethene    | <5.0 |
| trans-1,2-Dichloroethene  | <5.0 |
| 1,2-Dichloropropane       | <5.0 |
| cis-1,3-Dichloropropene   | <5.0 |
| trans-1,3-Dichloropropene | <5.0 |
| Methylene chloride        | <5.0 |
| 1,1,2,2-Tetrachloroethane | <5.0 |
| Tetrachloroethene         | <5.0 |
| 1,1,1-Trichloroethane     | <5.0 |
| 1,1,2-Trichloroethane     | <5.0 |
| Trichloroethene           | <5.0 |
| Trichlorofluoromethane    | <5.0 |
| Vinyl chloride            | <5.0 |
| Dichlorodifluoromethane   | <5.0 |

NOTE: This analysis is equivalent to EPA Methods 601/8010.







# ENERGY LABORATORIES, INC.

P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325  
FAX (406) 252-6069 • 1-800-735-4489

## LABORATORY REPORT

TO: Envirocon, Inc.  
ADDRESS: P.O. Box 1154  
Livingston, MT 59047

LAB NO.: 92-5051  
DATE: 02/20/92 rh

### SOIL ANALYSIS

Livingston/BN  
140101-SO-307  
Sampled 02/03/92 @ 1656  
Submitted 02/04/92  
Analyzed 02/17/92

RECEIVED  
FEB 21 1992  
ENVIROCON, Inc.  
Livingston, Mt.  
ug/kg\*

### CONSTITUENT

#### Purgeable Halocarbons (EPA Method 8260)

|                           |        |
|---------------------------|--------|
| Bromodichloromethane      | < 1000 |
| Bromoform                 | < 1000 |
| Bromomethane              | < 1000 |
| Carbon tetrachloride      | < 1000 |
| Chlorobenzene             | < 1000 |
| Chloroethane              | < 1000 |
| 2-Chloroethylvinyl ether  | < 1000 |
| 2-Chlorotoluene           | < 1000 |
| Chloroform                | < 1000 |
| Chloromethane             | < 1000 |
| Dibromochloromethane      | < 1000 |
| 1,2-Dichlorobenzene       | < 1000 |
| 1,3-Dichlorobenzene       | < 1000 |
| 1,4-Dichlorobenzene       | < 1000 |
| 1,1-Dichloroethane        | < 1000 |
| 1,2-Dichloroethane        | < 1000 |
| 1,1-Dichloroethene        | < 1000 |
| cis-1,2-Dichloroethene    | < 1000 |
| trans-1,2-Dichloroethene  | < 1000 |
| 1,2-Dichloropropane       | < 1000 |
| cis-1,3-Dichloropropene   | < 1000 |
| trans-1,3-Dichloropropene | < 1000 |
| Methylene chloride        | < 1000 |
| 1,1,2,2-Tetrachloroethane | < 1000 |
| Tetrachloroethene         | < 1000 |
| 1,1,1-Trichloroethane     | < 1000 |
| 1,1,2-Trichloroethane     | < 1000 |
| Trichloroethene           | < 1000 |
| Trichlorofluoromethane    | < 1000 |
| Vinyl chloride            | < 1000 |
| Dichlorodifluoromethane   | < 1000 |

NOTE: This analysis is equivalent to EPA Methods 601/8010.

\*Practical quantitation limit reflects a 5x dilution of the purge and trap high concentration method extract. The extract was diluted due to non-target compound sample matrix interferences.





**ENERGY LABORATORIES, INC.**

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W 3/10/92

**RECEIVED**

**MAR 10 1992**

**ENVIROCON, Inc.  
Livingston, MT.**

March 5, 1992

Envirocon, Inc.  
P.O. Box 1154  
Livingston, MT 59047

On February 6, 1992 these samples, represented by our laboratory numbers 92-5158 to 92-5165, were submitted to our laboratory for analysis.

The test results and quality assurance were reviewed and approved by the undersigned.

Reviewed by: \_\_\_\_\_



**ENERGY LABORATORIES, INC.**P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325  
FAX (406) 252-6069 • 1-800-735-4489**LABORATORY REPORT****TO:** Envirocon, Inc.  
**ADDRESS:** P.O. Box 1154  
Livingston, MT 59047**LAB NO.:** 92-5158 -65  
**DATE:** 03/05/92 crpSOIL VOLATILE SURROGATE RECOVERY

50 µg/kg Surrogate Standard Spike

| <u>SAMPLE NO.</u>  | ----- % recovery-----      |                            |                            |
|--------------------|----------------------------|----------------------------|----------------------------|
|                    | <u>S1</u><br><u>(TOL)#</u> | <u>S2</u><br><u>(BFB)#</u> | <u>S3</u><br><u>(DCE)#</u> |
| 92-5158*           | 108                        | 110                        | 107                        |
| 92-5159            | 100                        | 78                         | 103                        |
| 92-5160            | 101                        | 116                        | 103                        |
| 92-5160 dup        | 108                        | 117                        | 106                        |
| 92-5161**          | 116                        | 80                         | 86                         |
| 92-5162***         | 95                         | 96                         | 100                        |
| 92-5163***         | 99                         | 84                         | 98                         |
| 92-5164***         | 91                         | 78                         | 100                        |
| 92-5165            | 116                        | 76                         | 75                         |
| Method Blank I*    | 93                         | 99                         | 93                         |
| Method Blank II    | 93                         | 99                         | 93                         |
| Method Blank III   | 96                         | 118                        | 91                         |
| Method Blank IV**  | 90                         | 84                         | 106                        |
| Method Blank V***  | 95                         | 100                        | 112                        |
| Method Blank VI*** | 91                         | 84                         | 85                         |
| Method Blank VII   | 99                         | 100                        | 103                        |

QC LIMITS, % Recovery

|                                  |        |
|----------------------------------|--------|
| S1 (TOL) = Toluene-d8            | 75-120 |
| S2 (BFB) = Bromofluorobenzene    | 75-120 |
| S3 (DCE) = 1,2-Dichloroethane-d4 | 70-120 |

#Column to be used to flag recovery values with an asterisk.

- \* 100 µg/kg surrogate standard spike
- \*\* 200 µg/kg surrogate standard spike
- \*\*\* 2000 µg/kg surrogate standard spike

**RECEIVED**

MAR 10 1992

ENVIROCON, Inc.  
Livingston, MA.





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FAX (406) 252-6069 • 1-800-735-4489

## LABORATORY REPORT

TO: Envirocon, Inc.  
ADDRESS: P.O. Box 1154  
Livingston, MT 59047

LAB NO: Blank  
DATE: 03/05/92 crp

### SOIL ANALYSIS

Method Blank VI  
Analyzed 02/14/92

RECEIVED

MAR 10 1992

ENVIROCON, Inc.  
Livingston, MT

### CONSTITUENT

ug/kg

#### Purgeable Halocarbons (EPA Method 8260)

|                           |       |
|---------------------------|-------|
| Bromodichloromethane      | < 200 |
| Bromoform                 | < 200 |
| Bromomethane              | < 200 |
| Carbon tetrachloride      | < 200 |
| Chlorobenzene             | < 200 |
| Chloroethane              | < 200 |
| 2-Chloroethylvinyl ether  | < 200 |
| 2-Chlorotoluene           | < 200 |
| Chloroform                | < 200 |
| Chloromethane             | < 200 |
| Dibromochloromethane      | < 200 |
| 1,2-Dichlorobenzene       | < 200 |
| 1,3-Dichlorobenzene       | < 200 |
| 1,4-Dichlorobenzene       | < 200 |
| 1,1-Dichloroethane        | < 200 |
| 1,2-Dichloroethane        | < 200 |
| 1,1-Dichloroethene        | < 200 |
| cis-1,2-Dichloroethene    | < 200 |
| trans-1,2-Dichloroethene  | < 200 |
| 1,2-Dichloropropane       | < 200 |
| cis-1,3-Dichloropropene   | < 200 |
| trans-1,3-Dichloropropene | < 200 |
| Methylene chloride        | < 200 |
| 1,1,2,2-Tetrachloroethane | < 200 |
| Tetrachloroethene         | < 200 |
| 1,1,1-Trichloroethane     | < 200 |
| 1,1,2-Trichloroethane     | < 200 |
| Trichloroethene           | < 200 |
| Trichlorofluoromethane    | < 200 |
| Vinyl chloride            | < 200 |
| Dichlorodifluoromethane   | < 200 |

NOTE: This analysis is equivalent to EPA Methods 601/8010.







# ENERGY LABORATORIES, INC.

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FAX (406) 252-6069 • 1-800-735-4489

M 3/10/92

## LABORATORY REPORT

TO: Envirocon, Inc.  
ADDRESS: P.O. Box 1154  
Livingston, MT 59047

LAB NO: Blank  
DATE: 03/05/92 crp

### SOIL ANALYSIS

Method Blank V  
Analyzed 02/12/92

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MAR 10 1992  
ENVIROCON, Inc.  
Livingston, MT

### CONSTITUENT

ug/kg

#### Purgeable Halocarbons (EPA Method 8260)

|                           |       |
|---------------------------|-------|
| Bromodichloromethane      | < 200 |
| Bromoform                 | < 200 |
| Bromomethane              | < 200 |
| Carbon tetrachloride      | < 200 |
| Chlorobenzene             | < 200 |
| Chloroethane              | < 200 |
| 2-Chloroethylvinyl ether  | < 200 |
| 2-Chlorotoluene           | < 200 |
| Chloroform                | < 200 |
| Chloromethane             | < 200 |
| Dibromochloromethane      | < 200 |
| 1,2-Dichlorobenzene       | < 200 |
| 1,3-Dichlorobenzene       | < 200 |
| 1,4-Dichlorobenzene       | < 200 |
| 1,1-Dichloroethane        | < 200 |
| 1,2-Dichloroethane        | < 200 |
| 1,1-Dichloroethene        | < 200 |
| cis-1,2-Dichloroethene    | < 200 |
| trans-1,2-Dichloroethene  | < 200 |
| 1,2-Dichloropropane       | < 200 |
| cis-1,3-Dichloropropene   | < 200 |
| trans-1,3-Dichloropropene | < 200 |
| Methylene chloride        | < 200 |
| 1,1,2,2-Tetrachloroethane | < 200 |
| Tetrachloroethene         | < 200 |
| 1,1,1-Trichloroethane     | < 200 |
| 1,1,2-Trichloroethane     | < 200 |
| Trichloroethene           | < 200 |
| Trichlorofluoromethane    | < 200 |
| Vinyl chloride            | < 200 |
| Dichlorodifluoromethane   | < 200 |

NOTE: This analysis is equivalent to EPA Methods 601/8010.





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FAX (406) 252-6069 • 1-800-735-4489

## LABORATORY REPORT

TO: Envirocon, Inc.  
ADDRESS: P.O. Box 1154  
Livingston, MT 59047

LAB NO.: 92-5051 spi  
DATE: 02/20/92 rh

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FEB 21 1992

ENVIROCON, Inc.  
Livingston, MT

### QUALITY ASSURANCE - SPIKED ANALYSIS

Lab No. 92-5051 was analyzed on 02/19/92 and spiked with the following constituents with these results for Envirocon samples.

| <u>Parameter</u>   | <u>-----µg/kg-----</u> |                   | <u>P (%)</u> | <u>Range for<br/>P (%)</u> |
|--------------------|------------------------|-------------------|--------------|----------------------------|
|                    | <u>Test Value</u>      | <u>True Value</u> |              |                            |
| 1,1-Dichloroethene | 5000                   | 3600              | 72           | 60-140                     |
| Benzene            | 5000                   | 3000              | 60           | 60-140                     |
| Trichloroethene    | 5000                   | 3600              | 72           | 60-140                     |
| Toluene            | 5000                   | 5500              | 110          | 60-140                     |
| Chlorobenzene      | 5000                   | 5000              | 100          | 60-140                     |

P = Percent recovery measured



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FAX (406) 252-6069 • 1-800-735-4489**LABORATORY REPORT****TO:** Envirocon, Inc.  
**ADDRESS:** P.O. Box 1154  
Livingston, MT 59047**LAB NO.:** 92-5048-51**DATE:** 02/20/92 rh**RECEIVED**  
FEB 21 1992  
ENVIROCON, Inc.  
Livingston, MT**SOIL VOLATILE SURROGATE RECOVERY**

| <u>SAMPLE NO.</u>   | -----% recovery-----       |                            |                            |
|---------------------|----------------------------|----------------------------|----------------------------|
|                     | <u>S1</u><br><u>(TOL)#</u> | <u>S2</u><br><u>(BFB)#</u> | <u>S3</u><br><u>(DCE)#</u> |
| 92-5048 *           | 106                        | 81                         | 104                        |
| 92-5049 *           | 117                        | 85                         | 73                         |
| 92-5050 *           | 105                        | 76                         | 84                         |
| 92-5050 dup *       | 105                        | 75                         | 78                         |
| 92-5051 **          | 112                        | 104                        | 101                        |
| Method Blank I *    | 115                        | 89                         | 75                         |
| Method Blank II *   | 99                         | 92                         | 91                         |
| Method Blank III ** | 111                        | 91                         | 109                        |

S1 (TOL) = Toluene-d8  
S2 (BFB) = Bromofluorobenzene  
S3 (DCE) = 1,2-Dichloroethane-d4

**QC LIMITS, % Recovery**

75-120  
75-120  
70-120

#Column to be used to flag recovery values with an asterisk.

\* 50 µg/kg Surrogate Standard Spike

\*\* 10000 µg/kg Surrogate Standard Spike





# ENERGY LABORATORIES, INC.

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LABORATORY REPORT FAX (406) 252-6069 • 1-800-735-4489

TO: Envirocon, Inc.  
ADDRESS: P.O. Box 1154  
Livingston, MT 59047

LAB NO.: Blank I  
DATE: 02/20/92 rh  
**RECEIVED**

## SOIL ANALYSIS

FEB 21 1992

Analyzed 02/14/92

ENVIROCON, Inc.  
Livingston, MT.

### CONSTITUENT

ug/kg

#### Purgeable Halocarbons (EPA Method 8260)

|                           |       |
|---------------------------|-------|
| Bromodichloromethane      | < 5.0 |
| Bromoform                 | < 5.0 |
| Bromomethane              | < 5.0 |
| Carbon tetrachloride      | < 5.0 |
| Chlorobenzene             | < 5.0 |
| Chloroethane              | < 5.0 |
| 2-Chloroethylvinyl ether  | < 5.0 |
| 2-Chlorotoluene           | < 5.0 |
| Chloroform                | < 5.0 |
| Chloromethane             | < 5.0 |
| Dibromochloromethane      | < 5.0 |
| 1,2-Dichlorobenzene       | < 5.0 |
| 1,3-Dichlorobenzene       | < 5.0 |
| 1,4-Dichlorobenzene       | < 5.0 |
| 1,1-Dichloroethane        | < 5.0 |
| 1,2-Dichloroethane        | < 5.0 |
| 1,1-Dichloroethene        | < 5.0 |
| cis-1,2-Dichloroethene    | < 5.0 |
| trans-1,2-Dichloroethene  | < 5.0 |
| 1,2-Dichloropropane       | < 5.0 |
| cis-1,3-Dichloropropene   | < 5.0 |
| trans-1,3-Dichloropropene | < 5.0 |
| Methylene chloride        | < 5.0 |
| 1,1,2,2-Tetrachloroethane | < 5.0 |
| Tetrachloroethene         | < 5.0 |
| 1,1,1-Trichloroethane     | < 5.0 |
| 1,1,2-Trichloroethane     | < 5.0 |
| Trichloroethene           | < 5.0 |
| Trichlorofluoromethane    | < 5.0 |
| Vinyl chloride            | < 5.0 |
| Dichlorodifluoromethane   | < 5.0 |

NOTE: This analysis is equivalent to EPA Methods 601/8010.







# ENERGY LABORATORIES, INC.

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## LABORATORY REPORT

TO: Envirocon, Inc.  
ADDRESS: P.O. Box 1154  
Livingston, MT 59047

LAB NO.: Blank II  
DATE: 02/20/92 rh

RECEIVED

FEB 21 1992

### SOIL ANALYSIS

Analyzed 02/13/92

ENVIROCON, Inc.  
Livingston, Mt.

### CONSTITUENT

ug/kg

#### Purgeable Halocarbons (EPA Method 8260)

|                           |       |
|---------------------------|-------|
| Bromodichloromethane      | < 5.0 |
| Bromoform                 | < 5.0 |
| Bromomethane              | < 5.0 |
| Carbon tetrachloride      | < 5.0 |
| Chlorobenzene             | < 5.0 |
| Chloroethane              | < 5.0 |
| 2-Chloroethylvinyl ether  | < 5.0 |
| 2-Chlorotoluene           | < 5.0 |
| Chloroform                | < 5.0 |
| Chloromethane             | < 5.0 |
| Dibromochloromethane      | < 5.0 |
| 1,2-Dichlorobenzene       | < 5.0 |
| 1,3-Dichlorobenzene       | < 5.0 |
| 1,4-Dichlorobenzene       | < 5.0 |
| 1,1-Dichloroethane        | < 5.0 |
| 1,2-Dichloroethane        | < 5.0 |
| 1,1-Dichloroethene        | < 5.0 |
| cis-1,2-Dichloroethene    | < 5.0 |
| trans-1,2-Dichloroethene  | < 5.0 |
| 1,2-Dichloropropane       | < 5.0 |
| cis-1,3-Dichloropropene   | < 5.0 |
| trans-1,3-Dichloropropene | < 5.0 |
| Methylene chloride        | 6.0   |
| 1,1,2,2-Tetrachloroethane | < 5.0 |
| Tetrachloroethene         | < 5.0 |
| 1,1,1-Trichloroethane     | < 5.0 |
| 1,1,2-Trichloroethane     | < 5.0 |
| Trichloroethene           | < 5.0 |
| Trichlorofluoromethane    | < 5.0 |
| Vinyl chloride            | < 5.0 |
| Dichlorodifluoromethane   | < 5.0 |

NOTE: This analysis is equivalent to EPA Methods 601/8010.





# ENERGY LABORATORIES, INC.

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LABORATORY REPORT FAX (406) 252-6069 • 1-800-735-4489

TO: Envirocon, Inc.  
ADDRESS: P.O. Box 1154  
Livingston, MT 59047

LAB NO.: Blank III

DATE: 02/20/92

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ENVIROCON, Inc.  
Livingston, MT

## SOIL ANALYSIS

Analyzed 02/17/92

### CONSTITUENT

ug/kg

#### Purgeable Halocarbons (EPA Method 8260)

|                           |        |
|---------------------------|--------|
| Bromodichloromethane      | < 1000 |
| Bromoform                 | < 1000 |
| Bromomethane              | < 1000 |
| Carbon tetrachloride      | < 1000 |
| Chlorobenzene             | < 1000 |
| Chloroethane              | < 1000 |
| 2-Chloroethylvinyl ether  | < 1000 |
| 2-Chlorotoluene           | < 1000 |
| Chloroform                | < 1000 |
| Chloromethane             | < 1000 |
| Dibromochloromethane      | < 1000 |
| 1,2-Dichlorobenzene       | < 1000 |
| 1,3-Dichlorobenzene       | < 1000 |
| 1,4-Dichlorobenzene       | < 1000 |
| 1,1-Dichloroethane        | < 1000 |
| 1,2-Dichloroethane        | < 1000 |
| 1,1-Dichloroethene        | < 1000 |
| cis-1,2-Dichloroethene    | < 1000 |
| trans-1,2-Dichloroethene  | < 1000 |
| 1,2-Dichloropropane       | < 1000 |
| cis-1,3-Dichloropropene   | < 1000 |
| trans-1,3-Dichloropropene | < 1000 |
| Methylene chloride        | < 1000 |
| 1,1,2,2-Tetrachloroethane | < 1000 |
| Tetrachloroethene         | < 1000 |
| 1,1,1-Trichloroethane     | < 1000 |
| 1,1,2-Trichloroethane     | < 1000 |
| Trichloroethene           | < 1000 |
| Trichlorofluoromethane    | < 1000 |
| Vinyl chloride            | < 1000 |
| Dichlorodifluoromethane   | < 1000 |

NOTE: This analysis is equivalent to EPA Methods 601/8010.





**ENERGY LABORATORIES, INC.**

P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325  
FAX (406) 252-6069 • 1-800-735-4489

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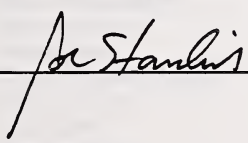
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FEB 21 1992  
ENVIRONMENTAL  
LABORATORY

February 20, 1992

Envirocon, Inc.  
P.O. Box 1154  
Livingston, MT 59047

On February 4, 1992 these samples, represented by our laboratory numbers 92-5048 to 92-5051, were submitted to our laboratory for analysis.

The test results and quality assurance were reviewed and approved by the undersigned.

Reviewed by: 





# ENERGY LABORATORIES, INC.

P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325  
FAX (406) 252-6069 • 1-800-735-4489

## LABORATORY REPORT

TO: Envirocon, Inc.  
ADDRESS: P.O. Box 1154  
Livingston, MT 59047

LAB NO: 92-5158  
DATE: 03/05/92

RECEIVED

MAR 10 1992

ENVIROCON, Inc.  
Livingston, MT

### SOIL ANALYSIS

Livingston/BN  
140101-SO-308  
Sampled 02/04/92 @ 0840  
Submitted 02/06/92  
Analyzed 02/14/92

JE-4  
10

### CONSTITUENT

ug/kg

#### Purgeable Halocarbons (EPA Method 8260)

|                           |     |
|---------------------------|-----|
| Bromodichloromethane      | <10 |
| Bromoform                 | <10 |
| Bromomethane              | <10 |
| Carbon tetrachloride      | <10 |
| Chlorobenzene             | <10 |
| Chloroethane              | <10 |
| 2-Chloroethylvinyl ether  | <10 |
| 2-Chlorotoluene           | <10 |
| Chloroform                | <10 |
| Chloromethane             | <10 |
| Dibromochloromethane      | <10 |
| 1,2-Dichlorobenzene       | <10 |
| 1,3-Dichlorobenzene       | <10 |
| 1,4-Dichlorobenzene       | <10 |
| 1,1-Dichloroethane        | <10 |
| 1,2-Dichloroethane        | <10 |
| 1,1-Dichloroethene        | <10 |
| cis-1,2-Dichloroethene    | <10 |
| trans-1,2-Dichloroethene  | <10 |
| 1,2-Dichloropropane       | <10 |
| cis-1,3-Dichloropropene   | <10 |
| trans-1,3-Dichloropropene | <10 |
| Methylene chloride        | <10 |
| 1,1,2,2-Tetrachloroethane | <10 |
| Tetrachloroethene         | <10 |
| 1,1,1-Trichloroethane     | <10 |
| 1,1,2-Trichloroethane     | <10 |
| Trichloroethene           | <10 |
| Trichlorofluoromethane    | <10 |
| Vinyl chloride            | <10 |
| Dichlorodifluoromethane   | <10 |

NOTE: This analysis is equivalent to EPA Methods 601/8010.

Practical quantitation limit reflects the analysis of 1.0 g of sample in the sparger. A lesser amount was used due to the consistency of the sample causing a depression of all internal standards.







# ENERGY LABORATORIES, INC.

P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325  
FAX (406) 252-6069 • 1-800-735-4489

## LABORATORY REPORT

TO: Envirocon, Inc.  
ADDRESS: P.O. Box 1154  
Livingston, MT 59047

LAB NO: 92-5159  
DATE: 03/05/92 crp

### SOIL ANALYSIS

Livingston/BN  
140101-SO-309  
Sampled 02/04/92 @ 0940  
Submitted 02/06/92  
Analyzed 02/14/92

VE-4  
261

RECEIVED  
MAR 10 1992  
ENVIROCON, INC.  
Livingston, MT

### CONSTITUENT

ug/kg

#### Purgeable Halocarbons (EPA Method 8260)

|                           |      |
|---------------------------|------|
| Bromodichloromethane      | <5.0 |
| Bromoform                 | <5.0 |
| Bromomethane              | <5.0 |
| Carbon tetrachloride      | <5.0 |
| Chlorobenzene             | <5.0 |
| Chloroethane              | <5.0 |
| 2-Chloroethylvinyl ether  | <5.0 |
| 2-Chlorotoluene           | 100  |
| Chloroform                | <5.0 |
| Chloromethane             | <5.0 |
| Dibromochloromethane      | <5.0 |
| 1,2-Dichlorobenzene       | <5.0 |
| 1,3-Dichlorobenzene       | <5.0 |
| 1,4-Dichlorobenzene       | <5.0 |
| 1,1-Dichloroethane        | <5.0 |
| 1,2-Dichloroethane        | <5.0 |
| 1,1-Dichloroethene        | <5.0 |
| cis-1,2-Dichloroethene    | <5.0 |
| trans-1,2-Dichloroethene  | <5.0 |
| 1,2-Dichloropropane       | <5.0 |
| cis-1,3-Dichloropropene   | <5.0 |
| trans-1,3-Dichloropropene | <5.0 |
| Methylene chloride        | <5.0 |
| 1,1,2,2-Tetrachloroethane | <5.0 |
| Tetrachloroethene         | <5.0 |
| 1,1,1-Trichloroethane     | <5.0 |
| 1,1,2-Trichloroethane     | <5.0 |
| Trichloroethene           | <5.0 |
| Trichlorofluoromethane    | <5.0 |
| Vinyl chloride            | <5.0 |
| Dichlorodifluoromethane   | <5.0 |

NOTE: This analysis is equivalent to EPA Methods 601/8010.





# ENERGY LABORATORIES, INC.

P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325  
FAX (406) 252-6069 • 1-800-735-4489

## LABORATORY REPORT

TO: Envirocon, Inc.  
ADDRESS: P.O. Box 1154  
Livingston, MT 59047

LAB NO: 92-5160  
DATE: 03/05/92 crp

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ENVIROCON, Inc.  
Livingston, MT

### SOIL ANALYSIS

Livingston/BN  
140101-SO-310  
Sampled 02/04/92 @ 1025  
Submitted 02/06/92  
Analyzed 02/18/92

VE 5'  
10'

### CONSTITUENT

ug/kg

#### Purgeable Halocarbons (EPA Method 8260)

|                           |      |
|---------------------------|------|
| Bromodichloromethane      | <5.0 |
| Bromoform                 | <5.0 |
| Bromomethane              | <5.0 |
| Carbon tetrachloride      | <5.0 |
| Chlorobenzene             | 62   |
| Chloroethane              | <5.0 |
| 2-Chloroethylvinyl ether  | <5.0 |
| 2-Chlorotoluene           | <5.0 |
| Chloroform                | <5.0 |
| Chloromethane             | <5.0 |
| Dibromochloromethane      | <5.0 |
| 1,2-Dichlorobenzene       | 17   |
| 1,3-Dichlorobenzene       | <5.0 |
| 1,4-Dichlorobenzene       | 11   |
| 1,1-Dichloroethane        | <5.0 |
| 1,2-Dichloroethane        | <5.0 |
| 1,1-Dichloroethene        | <5.0 |
| cis-1,2-Dichloroethene    | <5.0 |
| trans-1,2-Dichloroethene  | <5.0 |
| 1,2-Dichloropropane       | <5.0 |
| cis-1,3-Dichloropropene   | <5.0 |
| trans-1,3-Dichloropropene | <5.0 |
| Methylene chloride        | 6.3  |
| 1,1,2,2-Tetrachloroethane | <5.0 |
| Tetrachloroethene         | 17   |
| 1,1,1-Trichloroethane     | <5.0 |
| 1,1,2-Trichloroethane     | <5.0 |
| Trichloroethene           | <5.0 |
| Trichlorofluoromethane    | <5.0 |
| Vinyl chloride            | <5.0 |
| Dichlorodifluoromethane   | <5.0 |

NOTE: This analysis is equivalent to EPA Methods 601/8010.





# ENERGY LABORATORIES, INC.

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FAX (406) 252-6069 • 1-800-735-4489

## LABORATORY REPORT

TO: Envirocon, Inc.  
ADDRESS: P.O. Box 1154  
Livingston, MT 59047

LAB NO: 92-5160 dup  
DATE: 03/05/92 crp

### QUALITY ASSURANCE - DUPLICATE ANALYSIS

Livingston/BN  
140101-SO-310 VE-5  
Sampled 02/04/92 @ 1025 10  
Submitted 02/06/92  
Analyzed 02/18/92

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ENVIROCON, Inc.  
Livingston, MT

### CONSTITUENT

ug/kg

#### Purgeable Halocarbons (EPA Method 8260)

|                           |      |
|---------------------------|------|
| Bromodichloromethane      | <5.0 |
| Bromoform                 | <5.0 |
| Bromomethane              | <5.0 |
| Carbon tetrachloride      | <5.0 |
| Chlorobenzene             | 69   |
| Chloroethane              | <5.0 |
| 2-Chloroethylvinyl ether  | <5.0 |
| 2-Chlorotoluene           | <5.0 |
| Chloroform                | <5.0 |
| Chloromethane             | <5.0 |
| Dibromochloromethane      | <5.0 |
| 1,2-Dichlorobenzene       | 21   |
| 1,3-Dichlorobenzene       | <5.0 |
| 1,4-Dichlorobenzene       | 13   |
| 1,1-Dichloroethane        | <5.0 |
| 1,2-Dichloroethane        | <5.0 |
| 1,1-Dichloroethene        | <5.0 |
| cis-1,2-Dichloroethene    | <5.0 |
| trans-1,2-Dichloroethene  | <5.0 |
| 1,2-Dichloropropane       | <5.0 |
| cis-1,3-Dichloropropene   | <5.0 |
| trans-1,3-Dichloropropene | <5.0 |
| Methylene chloride        | 6.4  |
| 1,1,2,2-Tetrachloroethane | <5.0 |
| Tetrachloroethene         | 17   |
| 1,1,1-Trichloroethane     | <5.0 |
| 1,1,2-Trichloroethane     | <5.0 |
| Trichloroethene           | <5.0 |
| Trichlorofluoromethane    | <5.0 |
| Vinyl chloride            | <5.0 |
| Dichlorodifluoromethane   | <5.0 |

NOTE: This analysis is equivalent to EPA Methods 601/8010.





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## LABORATORY REPORT

TO: Envirocon, Inc.  
ADDRESS: P.O. Box 1154  
Livingston, MT 59047

LAB NO: 92-5162  
DATE: 03/05/92 crp

### SOIL ANALYSIS

Livingston/BN  
140101-SO-312  
Sampled 02/04/92 @ 1150  
Submitted 02/06/92  
Analyzed 02/12/92

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MAR 10 1992  
ENVIROCON, Inc.  
Livingston, Mt.

### CONSTITUENT

µg/kg

#### Purgeable Halocarbons (EPA Method 8260)

|                           |         |
|---------------------------|---------|
| Bromodichloromethane      | < 200   |
| Bromoform                 | < 200   |
| Bromomethane              | < 200   |
| Carbon tetrachloride      | < 200   |
| Chlorobenzene             | 13000 * |
| Chloroethane              | < 200   |
| 2-Chloroethylvinyl ether  | < 200   |
| 2-Chlorotoluene           | 320     |
| Chloroform                | < 200   |
| Chloromethane             | < 200   |
| Dibromochloromethane      | < 200   |
| 1,2-Dichlorobenzene       | 2700    |
| 1,3-Dichlorobenzene       | 1800    |
| 1,4-Dichlorobenzene       | 26000 * |
| 1,1-Dichloroethane        | < 200   |
| 1,2-Dichloroethane        | < 200   |
| 1,1-Dichloroethene        | < 200   |
| cis-1,2-Dichloroethene    | < 200   |
| trans-1,2-Dichloroethene  | < 200   |
| 1,2-Dichloropropane       | < 200   |
| cis-1,3-Dichloropropene   | < 200   |
| trans-1,3-Dichloropropene | < 200   |
| Methylene chloride        | < 200   |
| 1,1,2,2-Tetrachloroethane | < 200   |
| Tetrachloroethene         | < 200   |
| 1,1,1-Trichloroethane     | < 200   |
| 1,1,2-Trichloroethane     | < 200   |
| Trichloroethene           | < 200   |
| Trichlorofluoromethane    | < 200   |
| Vinyl chloride            | < 200   |
| Dichlorodifluoromethane   | < 200   |

NOTE: This analysis is equivalent to EPA Methods 601/8010.

Practical quantitation limit reflects use of the purge and trap high concentration extraction method. The method was used due to non-target compound sample matrix interference.

\*Value derived from a 50x dilution of the high concentration method extract.







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m 3/10/92

## LABORATORY REPORT

TO: Envirocon, Inc.  
ADDRESS: P.O. Box 1154  
Livingston, MT 59047

LAB NO: 92-5163  
DATE: 03/05/92 crp

### SOIL ANALYSIS

Livingston/BN  
140101-SO-313 VE-6  
Sampled 02/04/92 @ 1340 25'  
Submitted 02/06/92  
Analyzed 02/12/92

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MAR 10 1992  
ENVIROCON, Inc.  
Livingston, MT

### CONSTITUENT

ug/kg

#### Purgeable Halocarbons (EPA Method 8260)

|                           |       |
|---------------------------|-------|
| Bromodichloromethane      | < 200 |
| Bromoform                 | < 200 |
| Bromomethane              | < 200 |
| Carbon tetrachloride      | < 200 |
| Chlorobenzene             | 610   |
| Chloroethane              | < 200 |
| 2-Chloroethylvinyl ether  | < 200 |
| 2-Chlorotoluene           | < 200 |
| Chloroform                | < 200 |
| Chloromethane             | < 200 |
| Dibromochloromethane      | < 200 |
| 1,2-Dichlorobenzene       | 2200  |
| 1,3-Dichlorobenzene       | 250   |
| 1,4-Dichlorobenzene       | 1500  |
| 1,1-Dichloroethane        | < 200 |
| 1,2-Dichloroethane        | < 200 |
| 1,1-Dichloroethene        | < 200 |
| cis-1,2-Dichloroethene    | < 200 |
| trans-1,2-Dichloroethene  | < 200 |
| 1,2-Dichloropropane       | < 200 |
| cis-1,3-Dichloropropene   | < 200 |
| trans-1,3-Dichloropropene | < 200 |
| Methylene chloride        | < 200 |
| 1,1,2,2-Tetrachloroethane | < 200 |
| Tetrachloroethene         | < 200 |
| 1,1,1-Trichloroethane     | < 200 |
| 1,1,2-Trichloroethane     | < 200 |
| Trichloroethene           | < 200 |
| Trichlorofluoromethane    | < 200 |
| Vinyl chloride            | < 200 |
| Dichlorodifluoromethane   | < 200 |

NOTE: This analysis is equivalent to EPA Methods 601/8010.

Practical quantitation limit reflects use of the purge and trap high concentration extraction method. The method was used due to non-target compound sample matrix interference.





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## LABORATORY REPORT

TO: Envirocon, Inc.  
ADDRESS: P.O. Box 1154  
Livingston, MT 59047

LAB NO: 92-5164  
DATE: 03/05/92 crp

### SOIL ANALYSIS

Livingston/BN  
140101-SO-314  
Sampled 02/04/92 @ 1540  
Submitted 02/06/92  
Analyzed 02/14/92

VE-7  
11'-13'

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MAR 10 1992  
ENVIROCON, Inc.  
Livingston, Mt.

### CONSTITUENT

ug/kg

#### Purgeable Halocarbons (EPA Method 8260)

|                           |       |
|---------------------------|-------|
| Bromodichloromethane      | < 200 |
| Bromoform                 | < 200 |
| Bromomethane              | < 200 |
| Carbon tetrachloride      | < 200 |
| Chlorobenzene             | < 200 |
| Chloroethane              | < 200 |
| 2-Chloroethylvinyl ether  | < 200 |
| 2-Chlorotoluene           | 6000  |
| Chloroform                | < 200 |
| Chloromethane             | < 200 |
| Dibromochloromethane      | < 200 |
| 1,2-Dichlorobenzene       | < 200 |
| 1,3-Dichlorobenzene       | < 200 |
| 1,4-Dichlorobenzene       | < 200 |
| 1,1-Dichloroethane        | < 200 |
| 1,2-Dichloroethane        | < 200 |
| 1,1-Dichloroethene        | < 200 |
| cis-1,2-Dichloroethene    | < 200 |
| trans-1,2-Dichloroethene  | < 200 |
| 1,2-Dichloropropane       | < 200 |
| cis-1,3-Dichloropropene   | < 200 |
| trans-1,3-Dichloropropene | < 200 |
| Methylene chloride        | < 200 |
| 1,1,2,2-Tetrachloroethane | < 200 |
| Tetrachloroethene         | < 200 |
| 1,1,1-Trichloroethane     | < 200 |
| 1,1,2-Trichloroethane     | < 200 |
| Trichloroethene           | < 200 |
| Trichlorofluoromethane    | < 200 |
| Vinyl chloride            | < 200 |
| Dichlorodifluoromethane   | < 200 |

NOTE: This analysis is equivalent to EPA Methods 601/8010.





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## LABORATORY REPORT

TO: Envirocon, Inc.  
ADDRESS: P.O. Box 1154  
Livingston, MT 59047

LAB NO: 92-5165  
DATE: 03/05/92 crp

### SOIL ANALYSIS

Livingston/BN  
140101-SO-315  
Sampled 02/04/92 @ 1605  
Submitted 02/06/92  
Analyzed 02/18/92

VE-7  
251

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ENVIROCON, Inc.  
Livingston, MT.

### CONSTITUENT

ug/kg

#### Purgeable Halocarbons (EPA Method 8260)

|                           |      |
|---------------------------|------|
| Bromodichloromethane      | <5.0 |
| Bromoform                 | <5.0 |
| Bromomethane              | <5.0 |
| Carbon tetrachloride      | <5.0 |
| Chlorobenzene             | 6.4  |
| Chloroethane              | <5.0 |
| 2-Chloroethylvinyl ether  | <5.0 |
| 2-Chlorotoluene           | 17   |
| Chloroform                | <5.0 |
| Chloromethane             | <5.0 |
| Dibromochloromethane      | <5.0 |
| 1,2-Dichlorobenzene       | 78   |
| 1,3-Dichlorobenzene       | 8.7  |
| 1,4-Dichlorobenzene       | 50   |
| 1,1-Dichloroethane        | <5.0 |
| 1,2-Dichloroethane        | <5.0 |
| 1,1-Dichloroethene        | <5.0 |
| cis-1,2-Dichloroethene    | <5.0 |
| trans-1,2-Dichloroethene  | <5.0 |
| 1,2-Dichloropropane       | <5.0 |
| cis-1,3-Dichloropropene   | <5.0 |
| trans-1,3-Dichloropropene | <5.0 |
| Methylene chloride        | <5.0 |
| 1,1,2,2-Tetrachloroethane | <5.0 |
| Tetrachloroethene         | <5.0 |
| 1,1,1-Trichloroethane     | <5.0 |
| 1,1,2-Trichloroethane     | <5.0 |
| Trichloroethene           | <5.0 |
| Trichlorofluoromethane    | <5.0 |
| Vinyl chloride            | <5.0 |
| Dichlorodifluoromethane   | <5.0 |

NOTE: This analysis is equivalent to EPA Methods 601/8010.





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## LABORATORY REPORT

TO: Envirocon, Inc.  
ADDRESS: P.O. Box 1154  
Livingston, MT 59047

LAB NO: Blank  
DATE: 03/05/92 crp

### SOIL ANALYSIS

Method Blank I  
Analyzed 02/14/92

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ENVIROCON, Inc.  
Livingston, MT

### CONSTITUENT

ug/kg

#### Purgeable Halocarbons (EPA Method 8260)

|                           |     |
|---------------------------|-----|
| Bromodichloromethane      | <10 |
| Bromoform                 | <10 |
| Bromomethane              | <10 |
| Carbon tetrachloride      | <10 |
| Chlorobenzene             | <10 |
| Chloroethane              | <10 |
| 2-Chloroethylvinyl ether  | <10 |
| 2-Chlorotoluene           | <10 |
| Chloroform                | <10 |
| Chloromethane             | <10 |
| Dibromochloromethane      | <10 |
| 1,2-Dichlorobenzene       | <10 |
| 1,3-Dichlorobenzene       | <10 |
| 1,4-Dichlorobenzene       | <10 |
| 1,1-Dichloroethane        | <10 |
| 1,2-Dichloroethane        | <10 |
| 1,1-Dichloroethene        | <10 |
| cis-1,2-Dichloroethene    | <10 |
| trans-1,2-Dichloroethene  | <10 |
| 1,2-Dichloropropane       | <10 |
| cis-1,3-Dichloropropene   | <10 |
| trans-1,3-Dichloropropene | <10 |
| Methylene chloride        | <10 |
| 1,1,2,2-Tetrachloroethane | <10 |
| Tetrachloroethene         | <10 |
| 1,1,1-Trichloroethane     | <10 |
| 1,1,2-Trichloroethane     | <10 |
| Trichloroethene           | <10 |
| Trichlorofluoromethane    | <10 |
| Vinyl chloride            | <10 |
| Dichlorodifluoromethane   | <10 |

NOTE: This analysis is equivalent to EPA Methods 601/8010.







# ENERGY LABORATORIES, INC.

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## LABORATORY REPORT

TO: Envirocon, Inc.  
ADDRESS: P.O. Box 1154  
Livingston, MT 59047

LAB NO: Blank  
DATE: 03/05/92 crp

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ENVIROCON, Inc.  
Livingston, MT.

### SOIL ANALYSIS

Method Blank II  
Analyzed 02/14/92

#### CONSTITUENT

ug/kg

#### Purgeable Halocarbons (EPA Method 8260)

|                           |      |
|---------------------------|------|
| Bromodichloromethane      | <5.0 |
| Bromoform                 | <5.0 |
| Bromomethane              | <5.0 |
| Carbon tetrachloride      | <5.0 |
| Chlorobenzene             | <5.0 |
| Chloroethane              | <5.0 |
| 2-Chloroethylvinyl ether  | <5.0 |
| 2-Chlorotoluene           | <5.0 |
| Chloroform                | <5.0 |
| Chloromethane             | <5.0 |
| Dibromochloromethane      | <5.0 |
| 1,2-Dichlorobenzene       | <5.0 |
| 1,3-Dichlorobenzene       | <5.0 |
| 1,4-Dichlorobenzene       | <5.0 |
| 1,1-Dichloroethane        | <5.0 |
| 1,2-Dichloroethane        | <5.0 |
| 1,1-Dichloroethene        | <5.0 |
| cis-1,2-Dichloroethene    | <5.0 |
| trans-1,2-Dichloroethene  | <5.0 |
| 1,2-Dichloropropane       | <5.0 |
| cis-1,3-Dichloropropene   | <5.0 |
| trans-1,3-Dichloropropene | <5.0 |
| Methylene chloride        | <5.0 |
| 1,1,1,2-Tetrachloroethane | <5.0 |
| Tetrachloroethene         | <5.0 |
| 1,1,1-Trichloroethane     | <5.0 |
| 1,1,2-Trichloroethane     | <5.0 |
| Trichloroethene           | <5.0 |
| Trichlorofluoromethane    | <5.0 |
| Vinyl chloride            | <5.0 |
| Dichlorodifluoromethane   | <5.0 |

NOTE: This analysis is equivalent to EPA Methods 601/8010.





# ENERGY LABORATORIES, INC.

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## LABORATORY REPORT

TO: Envirocon, Inc.  
ADDRESS: P.O. Box 1154  
Livingston, MT 59047

LAB NO: Blank  
DATE: 03/05/92 crp

### SOIL ANALYSIS

Method Blank III  
Analyzed 02/18/92

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ENVIROCON, Inc.  
Livingston, MT.

### CONSTITUENT

ug/kg

#### Purgeable Halocarbons (EPA Method 8260)

|                           |      |
|---------------------------|------|
| Bromodichloromethane      | <5.0 |
| Bromoform                 | <5.0 |
| Bromomethane              | <5.0 |
| Carbon tetrachloride      | <5.0 |
| Chlorobenzene             | <5.0 |
| Chloroethane              | <5.0 |
| 2-Chloroethylvinyl ether  | <5.0 |
| 2-Chlorotoluene           | <5.0 |
| Chloroform                | <5.0 |
| Chloromethane             | <5.0 |
| Dibromochloromethane      | <5.0 |
| 1,2-Dichlorobenzene       | <5.0 |
| 1,3-Dichlorobenzene       | <5.0 |
| 1,4-Dichlorobenzene       | <5.0 |
| 1,1-Dichloroethane        | <5.0 |
| 1,2-Dichloroethane        | <5.0 |
| 1,1-Dichloroethene        | <5.0 |
| cis-1,2-Dichloroethene    | <5.0 |
| trans-1,2-Dichloroethene  | <5.0 |
| 1,2-Dichloropropane       | <5.0 |
| cis-1,3-Dichloropropene   | <5.0 |
| trans-1,3-Dichloropropene | <5.0 |
| Methylene chloride        | <5.0 |
| 1,1,2,2-Tetrachloroethane | <5.0 |
| Tetrachloroethene         | <5.0 |
| 1,1,1-Trichloroethane     | <5.0 |
| 1,1,2-Trichloroethane     | <5.0 |
| Trichloroethene           | <5.0 |
| Trichlorofluoromethane    | <5.0 |
| Vinyl chloride            | <5.0 |
| Dichlorodifluoromethane   | <5.0 |

NOTE: This analysis is equivalent to EPA Methods 601/8010.





ENERGY LABORATORIES, INC.

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LABORATORY REPORT

TO: Envirocon, Inc.  
ADDRESS: P.O. Box 1154  
Livingston, MT 59047

LAB NO: Blank  
DATE: 03/05/92 crp

SOIL ANALYSIS

Method Blank IV  
Analyzed 02/18/92

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ENVIROCON, Inc.  
Livingston, MT

CONSTITUENT

ug/kg

Purgeable Halocarbons (EPA Method 8260)

|                           |      |
|---------------------------|------|
| Bromodichloromethane      | < 20 |
| Bromoform                 | < 20 |
| Bromomethane              | < 20 |
| Carbon tetrachloride      | < 20 |
| Chlorobenzene             | < 20 |
| Chloroethane              | < 20 |
| 2-Chloroethylvinyl ether  | < 20 |
| 2-Chlorotoluene           | < 20 |
| Chloroform                | < 20 |
| Chloromethane             | < 20 |
| Dibromochloromethane      | < 20 |
| 1,2-Dichlorobenzene       | < 20 |
| 1,3-Dichlorobenzene       | < 20 |
| 1,4-Dichlorobenzene       | < 20 |
| 1,1-Dichloroethane        | < 20 |
| 1,2-Dichloroethane        | < 20 |
| 1,1-Dichloroethene        | < 20 |
| cis-1,2-Dichloroethene    | < 20 |
| trans-1,2-Dichloroethene  | < 20 |
| 1,2-Dichloropropane       | < 20 |
| cis-1,3-Dichloropropene   | < 20 |
| trans-1,3-Dichloropropene | < 20 |
| Methylene chloride        | < 20 |
| 1,1,2,2-Tetrachloroethane | < 20 |
| Tetrachloroethene         | < 20 |
| 1,1,1-Trichloroethane     | < 20 |
| 1,1,2-Trichloroethane     | < 20 |
| Trichloroethene           | < 20 |
| Trichlorofluoromethane    | < 20 |
| Vinyl chloride            | < 20 |
| Dichlorodifluoromethane   | < 20 |

NOTE: This analysis is equivalent to EPA Methods 601/8010.





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FAX (406) 252-6069 • 1-800-735-4489

## LABORATORY REPORT

TO: Envirocon, Inc.  
ADDRESS: P.O. Box 1154  
Livingston, MT 59047

LAB NO.: 92-5161 spi  
DATE: 03/05/92 crp

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MAR 10 1992

ENVIROCON, Inc.  
Livingston, MT.

### QUALITY ASSURANCE - SPIKE ANALYSIS

This Quality Assurance Spike sample was analyzed 02/20/92 with your  
lab no. 92-5161 with the following results:

| <u>Parameter</u>   | <u>Test</u>                               | <u>True</u>                               | <u>P (%)</u> | <u>Range for P (%)</u> |
|--------------------|---|---|--------------|------------------------|
|                    | <u>Value, <math>\mu\text{g/kg}</math></u> | <u>Value, <math>\mu\text{g/kg}</math></u> |              |                        |
| 1,1-Dichloroethene | 100                                       | 90  | 90           | 60-140                 |
| Benzene            | 100                                       | 84  | 84           | 60-140                 |
| Trichloroethene    | 100                                       | 96  | 96           | 60-140                 |
| Toluene            | 100                                       | 86  | 86           | 60-140                 |
| Chlorobenzene      | 100                                       | 71  | 71           | 60-140                 |

P = Percent recovery measured.







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## LABORATORY REPORT

TO: Envirocon  
ADDRESS: P.O. Box 1154  
Livingston, MT 59047

LAB NO.: 92-5231  
DATE: 03/04/92 **RECEIVED**

MAR 06 1992

### SOIL ANALYSIS

Livingston/BN  
140101-SO-316

VE-8'  
10'

Sampled 02/05/92 @ 0810  
Submitted 02/07/92  
Analyzed 02/13/92

ENVIROCON, Inc.  
Livingston, Mt.

| <u>Constituent</u>                      | <u>ug/kg</u> |
|---|--------------|
| Purgeable Halocarbons (EPA Method 8260) |              |
| Bromodichloromethane                    | < 200        |
| Bromoform                               | < 200        |
| Bromomethane                            | < 200        |
| Carbon tetrachloride                    | < 200        |
| Chlorobenzene                           | 19000 *      |
| Chloroethane                            | < 200        |
| 2-Chloroethylvinyl ether                | < 200        |
| 2-Chlorotoluene                         | 14000 *      |
| Chloroform                              | < 200        |
| Chloromethane                           | < 200        |
| Dibromochloromethane                    | < 200        |
| 1,2-Dichlorobenzene                     | 3600         |
| 1,3-Dichlorobenzene                     | 720          |
| 1,4-Dichlorobenzene                     | 4400         |
| 1,1-Dichloroethane                      | < 200        |
| 1,2-Dichloroethane                      | < 200        |
| 1,1-Dichloroethene                      | < 200        |
| cis-1,2-Dichloroethene                  | < 200        |
| trans-1,2-Dichloroethene                | < 200        |
| 1,2-Dichloropropane                     | < 200        |
| cis-1,3-Dichloropropene                 | < 200        |
| trans-1,3-Dichloropropene               | < 200        |
| Methylene chloride                      | < 200        |
| 1,1,2,2-Tetrachloroethane               | < 200        |
| Tetrachloroethene                       | < 200        |
| 1,1,1-Trichloroethane                   | < 200        |
| 1,1,2-Trichloroethane                   | < 200        |
| Trichloroethene                         | < 200        |
| Trichlorofluoromethane                  | < 200        |
| Vinyl chloride                          | < 200        |
| Dichlorodifluoromethane                 | < 200        |

\*Values derived from a 10x dilution of the high concentration method extract.

REMARKS: Practical quantitation limit reflects use of the purge and trap high concentration extraction method. The method was used due to non-target compound sample matrix interference.

NOTE: This analysis is equivalent to EPA Methods 601/8010.

COMPLETE ENVIRONMENTAL ANALYTICAL SERVICE





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## LABORATORY REPORT

TO: Envirocon  
ADDRESS: P.O. Box 1154  
Livingston, MT 59047

LAB NO.: 92-5232 b  
DATE: 03/04/92 da

### SOIL ANALYSIS

Livingston/BN  
140101-SO-317  
Sampled 02/05/92 @ 0900  
Submitted 02/07/92  
Analyzed 02/19/92

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ENVIROCON, Inc.  
Livingston, Mt.

### Constituent

µg/kg

#### Purgeable Halocarbons (EPA Method 8260)

|                           |       |
|---------------------------|-------|
| Bromodichloromethane      | <1000 |
| Bromoform                 | <1000 |
| Bromomethane              | <1000 |
| Carbon tetrachloride      | <1000 |
| Chlorobenzene             | <1000 |
| Chloroethane              | <1000 |
| 2-Chloroethylvinyl ether  | <1000 |
| 2-Chlorotoluene           | <1000 |
| Chloroform                | <1000 |
| Chloromethane             | <1000 |
| Dibromochloromethane      | <1000 |
| 1,2-Dichlorobenzene       | <1000 |
| 1,3-Dichlorobenzene       | <1000 |
| 1,4-Dichlorobenzene       | <1000 |
| 1,1-Dichloroethane        | <1000 |
| 1,2-Dichloroethane        | <1000 |
| 1,1-Dichloroethene        | <1000 |
| cis-1,2-Dichloroethene    | <1000 |
| trans-1,2-Dichloroethene  | <1000 |
| 1,2-Dichloropropane       | <1000 |
| cis-1,3-Dichloropropene   | <1000 |
| trans-1,3-Dichloropropene | <1000 |
| Methylene chloride        | <1000 |
| 1,1,2,2-Tetrachloroethane | <1000 |
| Tetrachloroethene         | <1000 |
| 1,1,1-Trichloroethane     | <1000 |
| 1,1,2-Trichloroethane     | <1000 |
| Trichloroethene           | <1000 |
| Trichlorofluoromethane    | <1000 |
| Vinyl chloride            | <1000 |
| Dichlorodifluoromethane   | <1000 |

REMARKS: Practical quantitation limit reflects a 5x dilution of the purge & trap high concentration method extract. The extract was diluted due to non-target compound sample matrix interference with the last internal standard. (See 92-5232 a)

NOTE: This analysis is equivalent to EPA Methods 601/8010.

COMPLETE ENVIRONMENTAL ANALYTICAL SERVICE





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## LABORATORY REPORT

TO: Envirocon  
ADDRESS: P.O. Box 1154  
Livingston, MT 59047

LAB NO.: 92-5232 a  
DATE: 03/04/92 da

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### SOIL ANALYSIS

MAR 06 1992

Livingston/BN  
140101-SO-317  
Sampled 02/05/92 @ 0900  
Submitted 02/07/92  
Analyzed 02/19/92

VE-8  
2413

ENVIROCON, Inc.  
Livingston, Mt.

| Constituent                             | µg/kg |
|---|-------|
| Purgeable Halocarbons (EPA Method 8260) |       |
| Bromodichloromethane                    | < 200 |
| Bromoform                               | < 200 |
| Bromomethane                            | < 200 |
| Carbon tetrachloride                    | < 200 |
| Chlorobenzene                           | 900   |
| Chloroethane                            | < 200 |
| 2-Chloroethylvinyl ether                | < 200 |
| 2-Chlorotoluene                         | 640   |
| Chloroform                              | < 200 |
| Chloromethane                           | < 200 |
| Dibromochloromethane                    | < 200 |
| 1,2-Dichlorobenzene                     | 660   |
| 1,3-Dichlorobenzene                     | < 200 |
| 1,4-Dichlorobenzene                     | 440   |
| 1,1-Dichloroethane                      | < 200 |
| 1,2-Dichloroethane                      | < 200 |
| 1,1-Dichloroethene                      | < 200 |
| cis-1,2-Dichloroethene                  | < 200 |
| trans-1,2-Dichloroethene                | < 200 |
| 1,2-Dichloropropane                     | < 200 |
| cis-1,3-Dichloropropene                 | < 200 |
| trans-1,3-Dichloropropene               | < 200 |
| Methylene chloride                      | < 200 |
| 1,1,2,2-Tetrachloroethane               | < 200 |
| Tetrachloroethene                       | < 200 |
| 1,1,1-Trichloroethane                   | < 200 |
| 1,1,2-Trichloroethane                   | < 200 |
| Trichloroethene                         | < 200 |
| Trichlorofluoromethane                  | < 200 |
| Vinyl chloride                          | < 200 |
| Dichlorodifluoromethane                 | < 200 |

REMARKS: Practical quantitation limit reflects use of the purge and trap high concentration extraction method. The method was used due to non-target compound sample matrix interference.

NOTE: This analysis is equivalent to EPA Methods 601/8010.

COMPLETE ENVIRONMENTAL ANALYTICAL SERVICE





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FAX (406) 252-6069 • 1-800-735-4489

## LABORATORY REPORT

TO: Envirocon  
ADDRESS: P.O. Box 1154  
Livingston, MT 59047

LAB NO.: 92-5233  
DATE: 03/04/92 da

### SOIL ANALYSIS

Livingston/BN  
140101-SO-318  
Sampled 02/05/92 @ 1026  
Submitted 02/07/92  
Analyzed 02/16/92

VF-9 10'

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ENVIROCON, Inc.  
Livingston, Mt.

| Constituent                             | ug/kg |
|---|-------|
| Purgeable Halocarbons (EPA Method 8260) |       |
| Bromodichloromethane                    | < 200 |
| Bromoform                               | < 200 |
| Bromomethane                            | < 200 |
| Carbon tetrachloride                    | < 200 |
| Chlorobenzene                           | 230   |
| Chloroethane                            | < 200 |
| 2-Chloroethylvinyl ether                | < 200 |
| 2-Chlorotoluene                         | < 200 |
| Chloroform                              | < 200 |
| Chloromethane                           | < 200 |
| Dibromochloromethane                    | < 200 |
| 1,2-Dichlorobenzene                     | < 200 |
| 1,3-Dichlorobenzene                     | < 200 |
| 1,4-Dichlorobenzene                     | 370   |
| 1,1-Dichloroethane                      | < 200 |
| 1,2-Dichloroethane                      | < 200 |
| 1,1-Dichloroethene                      | < 200 |
| cis-1,2-Dichloroethene                  | < 200 |
| trans-1,2-Dichloroethene                | < 200 |
| 1,2-Dichloropropane                     | < 200 |
| cis-1,3-Dichloropropene                 | < 200 |
| trans-1,3-Dichloropropene               | < 200 |
| Methylene chloride                      | < 200 |
| 1,1,2,2-Tetrachloroethane               | < 200 |
| Tetrachloroethene                       | < 200 |
| 1,1,1-Trichloroethane                   | < 200 |
| 1,1,2-Trichloroethane                   | < 200 |
| Trichloroethene                         | < 200 |
| Trichlorofluoromethane                  | < 200 |
| Vinyl chloride                          | < 200 |
| Dichlorodifluoromethane                 | < 200 |

REMARKS: Practical quantitation limit reflects use of the purge and trap high concentration extraction method. The method was used due to non-target compound sample matrix interference.

NOTE: This analysis is equivalent to EPA Methods 601/8010.

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## LABORATORY REPORT

TO: Envirocon  
ADDRESS: P.O. Box 1154  
Livingston, MT 59047

LAB NO.: 92-5234  
DATE: 03/04/92 da

### SOIL ANALYSIS

Livingston/BN  
140101-SO-319  
Sampled 02/05/92 @ 1125  
Submitted 02/07/92  
Analyzed 02/18/92

VE-9 25'

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ENVIROCON, Inc.  
Livingston, Mt.

| <u>Constituent</u>                      | <u>ug/kg</u> |
|---|--------------|
| Purgeable Halocarbons (EPA Method 8260) |              |
| Bromodichloromethane                    | <5.0         |
| Bromoform                               | <5.0         |
| Bromomethane                            | <5.0         |
| Carbon tetrachloride                    | <5.0         |
| Chlorobenzene                           | <5.0         |
| Chloroethane                            | <5.0         |
| 2-Chloroethylvinyl ether                | <5.0         |
| 2-Chlorotoluene                         | <5.0         |
| Chloroform                              | <5.0         |
| Chloromethane                           | <5.0         |
| Dibromochloromethane                    | <5.0         |
| 1,2-Dichlorobenzene                     | <5.0         |
| 1,3-Dichlorobenzene                     | <5.0         |
| 1,4-Dichlorobenzene                     | <5.0         |
| 1,1-Dichloroethane                      | <5.0         |
| 1,2-Dichloroethane                      | <5.0         |
| 1,1-Dichloroethene                      | <5.0         |
| cis-1,2-Dichloroethene                  | <5.0         |
| trans-1,2-Dichloroethene                | <5.0         |
| 1,2-Dichloropropane                     | <5.0         |
| cis-1,3-Dichloropropene                 | <5.0         |
| trans-1,3-Dichloropropene               | <5.0         |
| Methylene chloride                      | <5.0         |
| 1,1,2,2-Tetrachloroethane               | <5.0         |
| Tetrachloroethene                       | <5.0         |
| 1,1,1-Trichloroethane                   | <5.0         |
| 1,1,2-Trichloroethane                   | <5.0         |
| Trichloroethene                         | <5.0         |
| Trichlorofluoromethane                  | <5.0         |
| Vinyl chloride                          | <5.0         |
| Dichlorodifluoromethane                 | <5.0         |

NOTE: This analysis is equivalent to EPA Methods 601/8010.





# ENERGY LABORATORIES, INC.

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## LABORATORY REPORT

TO: Envirocon  
ADDRESS: P.O. Box 1154  
Livingston, MT 59047

LAB NO.: 92-5235  
DATE: 03/04/92 da

### SOIL ANALYSIS

Livingston/BN  
140101-SO-320  
Sampled 02/05/92 @ 1320  
Submitted 02/07/92  
Analyzed 02/20/92

VEID  
10'

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ENVIROCON, Inc.  
Livingston, Mt.

| Constituent                             | ug/kg |
|---|-------|
| Purgeable Halocarbons (EPA Method 8260) |       |
| Bromodichloromethane                    | < 20  |
| Bromoform                               | < 20  |
| Bromomethane                            | < 20  |
| Carbon tetrachloride                    | < 20  |
| Chlorobenzene                           | < 20  |
| Chloroethane                            | < 20  |
| 2-Chloroethylvinyl ether                | < 20  |
| 2-Chlorotoluene                         | < 20  |
| Chloroform                              | < 20  |
| Chloromethane                           | < 20  |
| Dibromochloromethane                    | < 20  |
| 1,2-Dichlorobenzene                     | < 20  |
| 1,3-Dichlorobenzene                     | < 20  |
| 1,4-Dichlorobenzene                     | < 20  |
| 1,1-Dichloroethane                      | < 20  |
| 1,2-Dichloroethane                      | < 20  |
| 1,1-Dichloroethene                      | < 20  |
| cis-1,2-Dichloroethene                  | < 20  |
| trans-1,2-Dichloroethene                | < 20  |
| 1,2-Dichloropropane                     | < 20  |
| cis-1,3-Dichloropropene                 | < 20  |
| trans-1,3-Dichloropropene               | < 20  |
| Methylene chloride                      | < 20  |
| 1,1,2,2-Tetrachloroethane               | < 20  |
| Tetrachloroethene                       | < 20  |
| 1,1,1-Trichloroethane                   | < 20  |
| 1,1,2-Trichloroethane                   | < 20  |
| Trichloroethene                         | < 20  |
| Trichlorofluoromethane                  | < 20  |
| Vinyl chloride                          | < 20  |
| Dichlorodifluoromethane                 | < 20  |

REMARKS: Practical quantitation limit reflects the analysis of 0.50 g of sample in the sparger. A lesser amount was used due to the consistency of the sample causing a depression of all internal standards.

NOTE: This analysis is equivalent to EPA Methods 601/8010.

COMPLETE ENVIRONMENTAL ANALYTICAL SERVICE





# ENERGY LABORATORIES, INC.

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## LABORATORY REPORT

TO: Envirocon  
ADDRESS: P.O. Box 1154  
Livingston, MT 59047

LAB NO.: 92-5236  
DATE: 03/04/92 da

### SOIL ANALYSIS

Livingston/BN  
140101-SO-321  
Sampled 02/05/92 @ 1410  
Submitted 02/07/92  
Analyzed 02/19/92

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MAR 06 1992

ENVIROCON, Inc.  
Livingston, Mt.

| Constituent                             | ug/kg |
|---|-------|
| Purgeable Halocarbons (EPA Method 8260) |       |
| Bromodichloromethane                    | <5.0  |
| Bromoform                               | <5.0  |
| Bromomethane                            | <5.0  |
| Carbon tetrachloride                    | <5.0  |
| Chlorobenzene                           | <5.0  |
| Chloroethane                            | <5.0  |
| 2-Chloroethylvinyl ether                | <5.0  |
| 2-Chlorotoluene                         | <5.0  |
| Chloroform                              | <5.0  |
| Chloromethane                           | <5.0  |
| Dibromochloromethane                    | <5.0  |
| 1,2-Dichlorobenzene                     | <5.0  |
| 1,3-Dichlorobenzene                     | <5.0  |
| 1,4-Dichlorobenzene                     | <5.0  |
| 1,1-Dichloroethane                      | <5.0  |
| 1,2-Dichloroethane                      | <5.0  |
| 1,1-Dichloroethene                      | <5.0  |
| cis-1,2-Dichloroethene                  | <5.0  |
| trans-1,2-Dichloroethene                | <5.0  |
| 1,2-Dichloropropane                     | <5.0  |
| cis-1,3-Dichloropropene                 | <5.0  |
| trans-1,3-Dichloropropene               | <5.0  |
| Methylene chloride                      | 7.2   |
| 1,1,2,2-Tetrachloroethane               | <5.0  |
| Tetrachloroethene                       | <5.0  |
| 1,1,1-Trichloroethane                   | <5.0  |
| 1,1,2-Trichloroethane                   | <5.0  |
| Trichloroethene                         | <5.0  |
| Trichlorofluoromethane                  | <5.0  |
| Vinyl chloride                          | <5.0  |
| Dichlorodifluoromethane                 | <5.0  |

NOTE: This analysis is equivalent to EPA Methods 601/8010.





ENERGY LABORATORIES, INC.

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m 3/6/92

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MAR 06 1992

LABORATORY REPORT

TO: Envirocon  
ADDRESS: P.O. Box 1154  
Livingston, MT 59047

LAB NO.: 92-5231 spi  
DATE: 03/04/92 da

ENVIROCON, Inc.  
Livingston, MT.

QUALITY ASSURANCE - SPIKED ANALYSIS

This Quality Assurance Spike sample was analyzed on 02/15/92 with  
your Lab No. 92-5231 with the following results:

| <u>Parameter</u>   | <u>Test</u>                               | <u>True</u>                               | <u>P (%)</u> | <u>Range for</u><br><u>P (%)</u> |
|--------------------|---|---|--------------|----------------------------------|
|                    | <u>Value, <math>\mu\text{g/kg}</math></u> | <u>Value, <math>\mu\text{g/kg}</math></u> |              |                                  |
| 1,1-Dichloroethene | 1000                                      | 810                                       | 81           | 60-140                           |
| Benzene            | 1000                                      | 790                                       | 79           | 60-140                           |
| Trichloroethene    | 1000                                      | 810                                       | 81           | 60-140                           |
| Toluene            | 1000                                      | 790                                       | 79           | 60-140                           |
| Chlorobenzene      | 10000                                     | 13000                                     | 130          | 60-140                           |

P = Percent recovery measured.







# ENERGY LABORATORIES, INC.

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## LABORATORY REPORT

TO: Envirocon  
ADDRESS: P.O. Box 1154  
Livingston, MT 59047

LAB NO.: Blank I  
DATE: 03/04/92 da

### SOIL ANALYSIS

Method Blank I  
Analyzed 02/13/92

RECEIVED

MAR 06 1992

ENVIROCON, Inc.  
Livingston, MT.

| <u>Constituent</u>                      | <u>ug/kg</u> |
|---|--------------|
| Purgeable Halocarbons (EPA Method 8260) |              |
| Bromodichloromethane                    | < 200        |
| Bromoform                               | < 200        |
| Bromomethane                            | < 200        |
| Carbon tetrachloride                    | < 200        |
| Chlorobenzene                           | < 200        |
| Chloroethane                            | < 200        |
| 2-Chloroethylvinyl ether                | < 200        |
| 2-Chlorotoluene                         | < 200        |
| Chloroform                              | < 200        |
| Chloromethane                           | < 200        |
| Dibromochloromethane                    | < 200        |
| 1,2-Dichlorobenzene                     | < 200        |
| 1,3-Dichlorobenzene                     | < 200        |
| 1,4-Dichlorobenzene                     | < 200        |
| 1,1-Dichloroethane                      | < 200        |
| 1,2-Dichloroethane                      | < 200        |
| 1,1-Dichloroethene                      | < 200        |
| cis-1,2-Dichloroethene                  | < 200        |
| trans-1,2-Dichloroethene                | < 200        |
| 1,2-Dichloropropane                     | < 200        |
| cis-1,3-Dichloropropene                 | < 200        |
| trans-1,3-Dichloropropene               | < 200        |
| Methylene chloride                      | < 200        |
| 1,1,2,2-Tetrachloroethane               | < 200        |
| Tetrachloroethene                       | < 200        |
| 1,1,1-Trichloroethane                   | < 200        |
| 1,1,2-Trichloroethane                   | < 200        |
| Trichloroethene                         | < 200        |
| Trichlorofluoromethane                  | < 200        |
| Vinyl chloride                          | < 200        |
| Dichlorodifluoromethane                 | < 200        |

NOTE: This analysis is equivalent to EPA Methods 601/8010.





# ENERGY LABORATORIES, INC.

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FAX (406) 252-6069 • 1-800-735-4489

## LABORATORY REPORT

TO: Envirocon  
ADDRESS: P.O. Box 1154  
Livingston, MT 59047

LAB NO.: Blank VII  
DATE: 03/04/92 **RECEIVED**

### SOIL ANALYSIS

Method Blank VII  
Analyzed 02/19/92

MAR 06 1992

ENVIROCON, Inc.  
Livingston, MT

| <u>Constituent</u>                             | <u>ug/kg</u> |
|--|--------------|
| <b>Purgeable Halocarbons (EPA Method 8260)</b> |              |
| Bromodichloromethane                           | < 200        |
| Bromoform                                      | < 200        |
| Bromomethane                                   | < 200        |
| Carbon tetrachloride                           | < 200        |
| Chlorobenzene                                  | < 200        |
| Chloroethane                                   | < 200        |
| 2-Chloroethylvinyl ether                       | < 200        |
| 2-Chlorotoluene                                | < 200        |
| Chloroform                                     | < 200        |
| Chloromethane                                  | < 200        |
| Dibromochloromethane                           | < 200        |
| 1,2-Dichlorobenzene                            | < 200        |
| 1,3-Dichlorobenzene                            | < 200        |
| 1,4-Dichlorobenzene                            | < 200        |
| 1,1-Dichloroethane                             | < 200        |
| 1,2-Dichloroethane                             | < 200        |
| 1,1-Dichloroethene                             | < 200        |
| cis-1,2-Dichloroethene                         | < 200        |
| trans-1,2-Dichloroethene                       | < 200        |
| 1,2-Dichloropropane                            | < 200        |
| cis-1,3-Dichloropropene                        | < 200        |
| trans-1,3-Dichloropropene                      | < 200        |
| Methylene chloride                             | < 200        |
| 1,1,2,2-Tetrachloroethane                      | < 200        |
| Tetrachloroethene                              | < 200        |
| 1,1,1-Trichloroethane                          | < 200        |
| 1,1,2-Trichloroethane                          | < 200        |
| Trichloroethene                                | < 200        |
| Trichlorofluoromethane                         | < 200        |
| Vinyl chloride                                 | < 200        |
| Dichlorodifluoromethane                        | < 200        |

NOTE: This analysis is equivalent to EPA Methods 601/8010.





# ENERGY LABORATORIES, INC.

P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325  
FAX (406) 252-6069 • 1-800-735-4489

## LABORATORY REPORT

TO: Envirocon  
ADDRESS: P.O. Box 1154  
Livingston, MT 59047

LAB NO.: Blank II  
DATE: 03/04/92 da

RECEIVED

### SOIL ANALYSIS

MAR 0 6 1992

Method Blank II  
Analyzed 02/19/92

ENVIROCON, Inc.  
Livingston, Mt.

| Constituent                             | <u>ug/kg</u> |
|---|--------------|
| Purgeable Halocarbons (EPA Method 8260) |              |
| Bromodichloromethane                    | < 1000       |
| Bromoform                               | < 1000       |
| Bromomethane                            | < 1000       |
| Carbon tetrachloride                    | < 1000       |
| Chlorobenzene                           | < 1000       |
| Chloroethane                            | < 1000       |
| 2-Chloroethylvinyl ether                | < 1000       |
| 2-Chlorotoluene                         | < 1000       |
| Chloroform                              | < 1000       |
| Chloromethane                           | < 1000       |
| Dibromochloromethane                    | < 1000       |
| 1,2-Dichlorobenzene                     | < 1000       |
| 1,3-Dichlorobenzene                     | < 1000       |
| 1,4-Dichlorobenzene                     | < 1000       |
| 1,1-Dichloroethane                      | < 1000       |
| 1,2-Dichloroethane                      | < 1000       |
| 1,1-Dichloroethene                      | < 1000       |
| cis-1,2-Dichloroethene                  | < 1000       |
| trans-1,2-Dichloroethene                | < 1000       |
| 1,2-Dichloropropane                     | < 1000       |
| cis-1,3-Dichloropropene                 | < 1000       |
| trans-1,3-Dichloropropene               | < 1000       |
| Methylene chloride                      | < 1000       |
| 1,1,2,2-Tetrachloroethane               | < 1000       |
| Tetrachloroethene                       | < 1000       |
| 1,1,1-Trichloroethane                   | < 1000       |
| 1,1,2-Trichloroethane                   | < 1000       |
| Trichloroethene                         | < 1000       |
| Trichlorofluoromethane                  | < 1000       |
| Vinyl chloride                          | < 1000       |
| Dichlorodifluoromethane                 | < 1000       |

NOTE: This analysis is equivalent to EPA Methods 601/8010.





# ENERGY LABORATORIES, INC.

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## LABORATORY REPORT

TO: Envirocon  
ADDRESS: P.O. Box 1154  
Livingston, MT 59047

LAB NO.: Blank III  
DATE: 03/04/92 da

### SOIL ANALYSIS

Method Blank III  
Analyzed 02/16/92

RECEIVED

MAR 06 1992

ENVIROCON, Inc.  
Livingston, Mt.

| <u>Constituent</u>                      | <u>µg/kg</u> |
|---|--------------|
| Purgeable Halocarbons (EPA Method 8260) |              |
| Bromodichloromethane                    | < 200        |
| Bromoform                               | < 200        |
| Bromomethane                            | < 200        |
| Carbon tetrachloride                    | < 200        |
| Chlorobenzene                           | < 200        |
| Chloroethane                            | < 200        |
| 2-Chloroethylvinyl ether                | < 200        |
| 2-Chlorotoluene                         | < 200        |
| Chloroform                              | < 200        |
| Chloromethane                           | < 200        |
| Dibromochloromethane                    | < 200        |
| 1,2-Dichlorobenzene                     | < 200        |
| 1,3-Dichlorobenzene                     | < 200        |
| 1,4-Dichlorobenzene                     | < 200        |
| 1,1-Dichloroethane                      | < 200        |
| 1,2-Dichloroethane                      | < 200        |
| 1,1-Dichloroethene                      | < 200        |
| cis-1,2-Dichloroethene                  | < 200        |
| trans-1,2-Dichloroethene                | < 200        |
| 1,2-Dichloropropane                     | < 200        |
| cis-1,3-Dichloropropene                 | < 200        |
| trans-1,3-Dichloropropene               | < 200        |
| Methylene chloride                      | < 200        |
| 1,1,2,2-Tetrachloroethane               | < 200        |
| Tetrachloroethene                       | < 200        |
| 1,1,1-Trichloroethane                   | < 200        |
| 1,1,2-Trichloroethane                   | < 200        |
| Trichloroethene                         | < 200        |
| Trichlorofluoromethane                  | < 200        |
| Vinyl chloride                          | < 200        |
| Dichlorodifluoromethane                 | < 200        |

NOTE: This analysis is equivalent to EPA Methods 601/8010.







# ENERGY LABORATORIES, INC.

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## LABORATORY REPORT

m 3/6/92

TO: Envirocon  
ADDRESS: P.O. Box 1154  
Livingston, MT 59047

LAB NO.: Blank IV  
DATE: 03/04/92 da

### SOIL ANALYSIS

Method Blank IV  
Analyzed 02/18/92

RECEIVED

MAR 0 6 1992

ENVIROCON, Inc.  
Livingston, Mt.

| <u>Constituent</u>                      | <u>ug/kg</u> |
|---|--------------|
| Purgeable Halocarbons (EPA Method 8260) |              |
| Bromodichloromethane                    | <5.0         |
| Bromoform                               | <5.0         |
| Bromomethane                            | <5.0         |
| Carbon tetrachloride                    | <5.0         |
| Chlorobenzene                           | <5.0         |
| Chloroethane                            | <5.0         |
| 2-Chloroethylvinyl ether                | <5.0         |
| 2-Chlorotoluene                         | <5.0         |
| Chloroform                              | <5.0         |
| Chloromethane                           | <5.0         |
| Dibromochloromethane                    | <5.0         |
| 1,2-Dichlorobenzene                     | <5.0         |
| 1,3-Dichlorobenzene                     | <5.0         |
| 1,4-Dichlorobenzene                     | <5.0         |
| 1,1-Dichloroethane                      | <5.0         |
| 1,2-Dichloroethane                      | <5.0         |
| 1,1-Dichloroethene                      | <5.0         |
| cis-1,2-Dichloroethene                  | <5.0         |
| trans-1,2-Dichloroethene                | <5.0         |
| 1,2-Dichloropropane                     | <5.0         |
| cis-1,3-Dichloropropene                 | <5.0         |
| trans-1,3-Dichloropropene               | <5.0         |
| Methylene chloride                      | <5.0         |
| 1,1,2,2-Tetrachloroethane               | <5.0         |
| Tetrachloroethene                       | <5.0         |
| 1,1,1-Trichloroethane                   | <5.0         |
| 1,1,2-Trichloroethane                   | <5.0         |
| Trichloroethene                         | <5.0         |
| Trichlorofluoromethane                  | <5.0         |
| Vinyl chloride                          | <5.0         |
| Dichlorodifluoromethane                 | <5.0         |

NOTE: This analysis is equivalent to EPA Methods 601/8010.





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## LABORATORY REPORT

TO: Envirocon  
ADDRESS: P.O. Box 1154  
Livingston, MT 59047

LAB NO.: Blank V  
DATE: 03/04/92 da

### SOIL ANALYSIS

Method Blank V  
Analyzed 02/20/92

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ENVIROCON, Inc.  
Livingston, Mt.

| Constituent                             | <u>ug/kg</u> |
|---|--------------|
| Purgeable Halocarbons (EPA Method 8260) |              |
| Bromodichloromethane                    | <20          |
| Bromoform                               | <20          |
| Bromomethane                            | <20          |
| Carbon tetrachloride                    | <20          |
| Chlorobenzene                           | <20          |
| Chloroethane                            | <20          |
| 2-Chloroethylvinyl ether                | <20          |
| 2-Chlorotoluene                         | <20          |
| Chloroform                              | <20          |
| Chloromethane                           | <20          |
| Dibromochloromethane                    | <20          |
| 1,2-Dichlorobenzene                     | <20          |
| 1,3-Dichlorobenzene                     | <20          |
| 1,4-Dichlorobenzene                     | <20          |
| 1,1-Dichloroethane                      | <20          |
| 1,2-Dichloroethane                      | <20          |
| 1,1-Dichloroethene                      | <20          |
| cis-1,2-Dichloroethene                  | <20          |
| trans-1,2-Dichloroethene                | <20          |
| 1,2-Dichloropropane                     | <20          |
| cis-1,3-Dichloropropene                 | <20          |
| trans-1,3-Dichloropropene               | <20          |
| Methylene chloride                      | 27           |
| 1,1,2,2-Tetrachloroethane               | <20          |
| Tetrachloroethene                       | <20          |
| 1,1,1-Trichloroethane                   | <20          |
| 1,1,2-Trichloroethane                   | <20          |
| Trichloroethene                         | <20          |
| Trichlorofluoromethane                  | <20          |
| Vinyl chloride                          | <20          |
| Dichlorodifluoromethane                 | <20          |

NOTE: This analysis is equivalent to EPA Methods 601/8010.





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## LABORATORY REPORT

TO: Envirocon  
ADDRESS: P.O. Box 1154  
Livingston, MT 59047

LAB NO.: Blank VI  
DATE: 03/04/92 da

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### SOIL ANALYSIS

MAR 06 1992

Method Blank VI  
Analyzed 02/19/92

ENVIROCON, Inc.  
Livingston, MT.

| <u>Constituent</u>                      | <u>ug/kg</u> |
|---|--------------|
| Purgeable Halocarbons (EPA Method 8260) |              |
| Bromodichloromethane .....              | <5.0         |
| Bromoform .....                         | <5.0         |
| Bromomethane .....                      | <5.0         |
| Carbon tetrachloride .....              | <5.0         |
| Chlorobenzene .....                     | <5.0         |
| Chloroethane .....                      | <5.0         |
| 2-Chloroethylvinyl ether .....          | <5.0         |
| 2-Chlorotoluene .....                   | <5.0         |
| Chloroform .....                        | <5.0         |
| Chloromethane .....                     | <5.0         |
| Dibromochloromethane .....              | <5.0         |
| 1,2-Dichlorobenzene .....               | <5.0         |
| 1,3-Dichlorobenzene .....               | <5.0         |
| 1,4-Dichlorobenzene .....               | <5.0         |
| 1,1-Dichloroethane .....                | <5.0         |
| 1,2-Dichloroethane .....                | <5.0         |
| 1,1-Dichloroethene .....                | <5.0         |
| cis-1,2-Dichloroethene .....            | <5.0         |
| trans-1,2-Dichloroethene .....          | <5.0         |
| 1,2-Dichloropropane .....               | <5.0         |
| cis-1,3-Dichloropropene .....           | <5.0         |
| trans-1,3-Dichloropropene .....         | <5.0         |
| Methylene chloride .....                | <5.0         |
| 1,1,2,2-Tetrachloroethane .....         | <5.0         |
| Tetrachloroethene .....                 | <5.0         |
| 1,1,1-Trichloroethane .....             | <5.0         |
| 1,1,2-Trichloroethane .....             | <5.0         |
| Trichloroethene .....                   | <5.0         |
| Trichlorofluoromethane .....            | <5.0         |
| Vinyl chloride .....                    | <5.0         |
| Dichlorodifluoromethane .....           | <5.0         |

NOTE: This analysis is equivalent to EPA Methods 601/8010.





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## LABORATORY REPORT

TO: Envirocon  
ADDRESS: P.O. Box 1154  
Livingston, MT 59047

LAB NO.: 92-5231 -36  
DATE: 03/04/92 da

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MAR 06 1992

ENVIROCON, Inc.  
Livingston, Mt.

### SOIL VOLATILE SURROGATE RECOVERY

| SAMPLE NO.          | -----% recovery----- |              |              |
|---------------------|----------------------|--------------|--------------|
|                     | S1<br>(TOL)#         | S2<br>(BFB)# | S3<br>(DCE)# |
| 92-5231 *           | 86                   | 78           | 112          |
| 92-5232 a *         | 118                  | 68           | 103          |
| 92-5232 b **        | 98                   | 81           | 95           |
| 92-5233 *           | 112                  | 75           | 119          |
| 92-5234 ***         | 117                  | 90           | 88           |
| 92-5235 ****        | 117                  | 120          | 96           |
| 92-5236 ***         | 106                  | 97           | 116          |
| Method Blank I *    | 100                  | 89           | 97           |
| Method Blank II **  | 102                  | 113          | 111          |
| Method Blank III *  | 95                   | 99           | 99           |
| Method Blank IV *** | 99                   | 100          | 103          |
| Method Blank V **** | 100                  | 102          | 97           |
| Method Blank VI *** | 118                  | 99           | 80           |
| Method Blank VII *  | 100                  | 90           | 104          |

|                                  | <u>QC LIMITS, % Recovery</u> |
|----------------------------------|------------------------------|
| S1 (TOL) = Toluene-d8            | 75-120                       |
| S2 (BFB) = Bromofluorobenzene    | 75-120                       |
| S3 (DCE) = 1,2-Dichloroethane-d4 | 70-120                       |

#Column to be used to flag recovery values with an asterisk.

- \*2,000 µg/kg Surrogate Standard Spike
- \*\*10,000 µg/kg Surrogate Standard Spike
- \*\*\*50 µg/kg Surrogate Standard Spike
- \*\*\*\*200 µg/kg Surrogate Standard Spike







**ENERGY LABORATORIES, INC.**

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m 3/6/92

**RECEIVED**

**MAR 06 1992**

**ENVIROCON, Inc.**  
Livingston, Mt.

March 4, 1992

Envirocon, Inc.  
P.O. Box 1154  
Livingston, MT 59047

On February 7, 1992 these samples, represented by our laboratory numbers 92-5231 to 92-5236, were submitted to our laboratory for analysis.

The test results and quality assurance were reviewed and approved by the undersigned.

Reviewed by: \_\_\_\_\_





# ENERGY LABORATORIES, INC.

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LABORATORY REPORT FAX (406) 252-6069 • 1-800-735-4489

M 2/27/92

TO: Envirocon, Inc.  
ADDRESS: P.O. Box 1154  
Livingston, MT 59047

LAB NO.: 92-5313  
DATE: 02/26/92 rh

## SOIL ANALYSIS

Livingston/BN, 140101-SO-322  
Sampled 02/06/92 @ 0925  
Submitted 02/10/92  
Analyzed 02/20/92

VE-11  
20'

RECEIVED  
FEB 27 1992  
ENVIROCON, Inc.  
Livingston, MT

## CONSTITUENT

ug/kg\*

### Purgeable Halocarbons (EPA Method 8260)

|                           |       |
|---------------------------|-------|
| Bromodichloromethane      | < 200 |
| Bromoform                 | < 200 |
| Bromomethane              | < 200 |
| Carbon tetrachloride      | < 200 |
| Chlorobenzene             | < 200 |
| Chloroethane              | < 200 |
| 2-Chloroethylvinyl ether  | < 200 |
| 2-Chlorotoluene           | < 200 |
| Chloroform                | < 200 |
| Chloromethane             | < 200 |
| Dibromochloromethane      | < 200 |
| 1,2-Dichlorobenzene       | < 200 |
| 1,3-Dichlorobenzene       | < 200 |
| 1,4-Dichlorobenzene       | < 200 |
| 1,1-Dichloroethane        | < 200 |
| 1,2-Dichloroethane        | < 200 |
| 1,1-Dichloroethene        | < 200 |
| cis-1,2-Dichloroethene    | < 200 |
| trans-1,2-Dichloroethene  | < 200 |
| 1,2-Dichloropropane       | < 200 |
| cis-1,3-Dichloropropene   | < 200 |
| trans-1,3-Dichloropropene | < 200 |
| Methylene chloride        | < 200 |
| 1,1,2,2-Tetrachloroethane | < 200 |
| Tetrachloroethene         | 510   |
| 1,1,1-Trichloroethane     | < 200 |
| 1,1,2-Trichloroethane     | < 200 |
| Trichloroethene           | < 200 |
| Trichlorofluoromethane    | < 200 |
| Vinyl chloride            | < 200 |
| Dichlorodifluoromethane   | < 200 |

NOTE: This analysis is equivalent to EPA Method 601/8010.

\* Practical quantitation limit reflects use of the purge and trap high concentration extraction method. This method was used due to non-target compound sample matrix interferences.





# ENERGY LABORATORIES, INC.

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## LABORATORY REPORT

M 3/27/92

TO: Envirocon, Inc.  
ADDRESS: P.O. Box 1154  
Livingston, MT 59047

LAB NO.: 92-5314  
DATE: 02/26/92 rh

### SOIL ANALYSIS

Livingston/BN, 140101-SO-323  
Sampled 02/06/92 @ 1048  
Submitted 02/10/92  
Analyzed 02/20/92

VE 12  
20'

RECEIVED  
FEB 27 1992

Envirocon, Inc.  
Livingston, Mt.

### CONSTITUENT

ug/kg

#### Purgeable Halocarbons (EPA Method 8260)

|                           |      |
|---------------------------|------|
| Bromodichloromethane      | <5.0 |
| Bromoform                 | <5.0 |
| Bromomethane              | <5.0 |
| Carbon tetrachloride      | <5.0 |
| Chlorobenzene             | <5.0 |
| Chloroethane              | <5.0 |
| 2-Chloroethylvinyl ether  | <5.0 |
| 2-Chlorotoluene           | <5.0 |
| Chloroform                | <5.0 |
| Chloromethane             | <5.0 |
| Dibromochloromethane      | <5.0 |
| 1,2-Dichlorobenzene       | <5.0 |
| 1,3-Dichlorobenzene       | <5.0 |
| 1,4-Dichlorobenzene       | <5.0 |
| 1,1-Dichloroethane        | <5.0 |
| 1,2-Dichloroethane        | <5.0 |
| 1,1-Dichloroethene        | <5.0 |
| cis-1,2-Dichloroethene    | <5.0 |
| trans-1,2-Dichloroethene  | <5.0 |
| 1,2-Dichloropropane       | <5.0 |
| cis-1,3-Dichloropropene   | <5.0 |
| trans-1,3-Dichloropropene | <5.0 |
| Methylene chloride        | <5.0 |
| 1,1,2,2-Tetrachloroethane | <5.0 |
| Tetrachloroethene         | 36   |
| 1,1,1-Trichloroethane     | <5.0 |
| 1,1,2-Trichloroethane     | <5.0 |
| Trichloroethene           | <5.0 |
| Trichlorofluoromethane    | <5.0 |
| Vinyl chloride            | <5.0 |
| Dichlorodifluoromethane   | <5.0 |

NOTE: This analysis is equivalent to EPA Method 601/8010.





# ENERGY LABORATORIES, INC.

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LABORATORY REPORT FAX (406) 252-6069 • 1-800-735-4489

m 2/27/92

TO: Envirocon, Inc.  
ADDRESS: P.O. Box 1154  
Livingston, MT 59047

LAB NO.: 92-5315  
DATE: 02/26/92 rh

## SOIL ANALYSIS

Livingston/BN, 140101-SO-324  
Sampled 02/06/92 @ 1157  
Submitted 02/10/92  
Analyzed 02/16/92

VE13  
10'

RECEIVED  
FEB 27 1992

ENVIROCON, Inc.  
Livingston, MT.

## CONSTITUENT

ug/kg\*

### Purgeable Halocarbons (EPA Method 8260)

|                           |           |
|---------------------------|-----------|
| Bromodichloromethane      | < 200     |
| Bromoform                 | < 200     |
| Bromomethane              | < 200     |
| Carbon tetrachloride      | < 200     |
| Chlorobenzene             | 1500      |
| Chloroethane              | < 200     |
| 2-Chloroethylvinyl ether  | < 200     |
| 2-Chlorotoluene           | 1000      |
| Chloroform                | < 200     |
| Chloromethane             | < 200     |
| Dibromochloromethane      | < 200     |
| 1,2-Dichlorobenzene       | 3600      |
| 1,3-Dichlorobenzene       | 610       |
| 1,4-Dichlorobenzene       | 1200      |
| 1,1-Dichloroethane        | < 200     |
| 1,2-Dichloroethane        | < 200     |
| 1,1-Dichloroethene        | < 200     |
| cis-1,2-Dichloroethene    | 3100      |
| trans-1,2-Dichloroethene  | < 200     |
| 1,2-Dichloropropane       | < 200     |
| cis-1,3-Dichloropropene   | < 200     |
| trans-1,3-Dichloropropene | < 200     |
| Methylene chloride        | < 200     |
| 1,1,2,2-Tetrachloroethane | < 200     |
| Tetrachloroethene         | 310000 ** |
| 1,1,1-Trichloroethane     | < 200     |
| 1,1,2-Trichloroethane     | < 200     |
| Trichloroethene           | 1400      |
| Trichlorofluoromethane    | < 200     |
| Vinyl chloride            | < 200     |
| Dichlorodifluoromethane   | < 200     |

NOTE: This analysis is equivalent to EPA Method 601/8010.

\* Practical quantitation limit reflects use of the purge and trap high concentration extraction method. This method was used due to non-target compound sample matrix interferences.

\*\*Value derived from a 500x dilution of the high concentration method extract.





TO: Envirocon, Inc.  
ADDRESS: P.O. Box 1154  
Livingston, MT 59047LAB NO.: 92-5316  
DATE: 02/26/92 rhSOIL ANALYSISLivingston/BN, 140101-SO-325  
Sampled 02/06/92 @ 1343  
Submitted 02/10/92  
Analyzed 02/20/92VE13  
232**RECEIVED**

FEB 27 1992

ENVIROCON, Inc.  
Livingston, MT.CONSTITUENTug/kg

## Purgeable Halocarbons (EPA Method 8260)

|                           |      |
|---------------------------|------|
| Bromodichloromethane      | <5.0 |
| Bromoform                 | <5.0 |
| Bromomethane              | <5.0 |
| Carbon tetrachloride      | <5.0 |
| Chlorobenzene             | <5.0 |
| Chloroethane              | <5.0 |
| 2-Chloroethylvinyl ether  | <5.0 |
| 2-Chlorotoluene           | <5.0 |
| Chloroform                | <5.0 |
| Chloromethane             | <5.0 |
| Dibromochloromethane      | <5.0 |
| 1,2-Dichlorobenzene       | <5.0 |
| 1,3-Dichlorobenzene       | <5.0 |
| 1,4-Dichlorobenzene       | <5.0 |
| 1,1-Dichloroethane        | <5.0 |
| 1,2-Dichloroethane        | <5.0 |
| 1,1-Dichloroethene        | <5.0 |
| cis-1,2-Dichloroethene    | <5.0 |
| trans-1,2-Dichloroethene  | <5.0 |
| 1,2-Dichloropropane       | <5.0 |
| cis-1,3-Dichloropropene   | <5.0 |
| trans-1,3-Dichloropropene | <5.0 |
| Methylene chloride        | <5.0 |
| 1,1,2,2-Tetrachloroethane | <5.0 |
| Tetrachloroethene         | <5.0 |
| 1,1,1-Trichloroethane     | <5.0 |
| 1,1,2-Trichloroethane     | <5.0 |
| Trichloroethene           | <5.0 |
| Trichlorofluoromethane    | <5.0 |
| Vinyl chloride            | <5.0 |
| Dichlorodifluoromethane   | <5.0 |

NOTE: This analysis is equivalent to EPA Method 601/8010.





ENERGY LABORATORIES, INC.

P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325  
FAX (406) 252-6069 • 1-800-735-4489

m 2/27/92

RECEIVED

FEB 27 1992

ENVIROCON Inc.  
Livingston, MT

February 26, 1992

Envirocon, Inc.  
P.O. Box 1154  
Livingston, MT 59047

On February 10, 1992, these samples, represented by our laboratory numbers 92-5313 to 92-5316, were submitted to our laboratory for analysis.

The test results and quality assurance were reviewed and approved by the undersigned.

Reviewed by: \_\_\_\_\_



**LABORATORY REPORT**

TO: Envirocon, Inc.  
ADDRESS: P.O. Box 1154  
Livingston, MT 59047

LAB NO.: 92-5313-6

DATE: 02/26/92 rh

**RECEIVED****FEB 27 1992**ENVIROCON, Inc.  
Livingston, Mt.**SOIL VOLATILE SURROGATE RECOVERY**

| <u><b>SAMPLE NO.</b></u> | <u><b>-----% recovery-----</b></u>       |  |  |
|--------------------------|--|--|--|
|                          | <u><b>S1</b></u><br><u><b>(TOL)#</b></u> | <u><b>S2</b></u><br><u><b>(BFB)#</b></u> | <u><b>S3</b></u><br><u><b>(DCE)#</b></u> |
| 92-5313*                 | 83                                       | 80                                       | 86                                       |
| 92-5314**                | 104                                      | 112                                      | 98                                       |
| 92-5315*                 | 86                                       | 78                                       | 113                                      |
| 92-5316**                | 118                                      | 105                                      | 111                                      |
| Method Blank I*          | 117                                      | 116                                      | 90                                       |
| Method Blank II**        | 100                                      | 102                                      | 97                                       |
| Method Blank III*        | 95                                       | 99                                       | 99                                       |

S1 (TOL) = Toluene-d8  
S2 (BFB) = Bromofluorobenzene  
S3 (DCE) = 1,2-Dichloroethane-d4

**QC LIMITS, % Recovery**

75-120  
75-120  
70-120

#Column to be used to flag recovery values with an asterisk.

\* 2000 µg/kg Surrogate Standard Spike

\*\* 50 µg/kg Surrogate Standard Spike



m 2/27/92

TO: Envirocon, Inc.  
ADDRESS: P.O. Box 1154  
Livingston, MT 59047LAB NO.: Blank II  
DATE: 02/26/92 rh**RECEIVED**

FEB 27 1992

ENVIROCON, Inc.  
Livingston, Mt.SOIL ANALYSISLow Concentration Method Blank II  
Analyzed 02/20/92CONSTITUENTµg/kg

## Purgeable Halocarbons (EPA Method 8260)

|                           |       |
|---------------------------|-------|
| Bromodichloromethane      | < 5.0 |
| Bromoform                 | < 5.0 |
| Bromomethane              | < 5.0 |
| Carbon tetrachloride      | < 5.0 |
| Chlorobenzene             | < 5.0 |
| Chloroethane              | < 5.0 |
| 2-Chloroethylvinyl ether  | < 5.0 |
| 2-Chlorotoluene           | < 5.0 |
| Chloroform                | < 5.0 |
| Chloromethane             | < 5.0 |
| Dibromochloromethane      | < 5.0 |
| 1,2-Dichlorobenzene       | < 5.0 |
| 1,3-Dichlorobenzene       | < 5.0 |
| 1,4-Dichlorobenzene       | < 5.0 |
| 1,1-Dichloroethane        | < 5.0 |
| 1,2-Dichloroethane        | < 5.0 |
| 1,1-Dichloroethene        | < 5.0 |
| cis-1,2-Dichloroethene    | < 5.0 |
| trans-1,2-Dichloroethene  | < 5.0 |
| 1,2-Dichloropropane       | < 5.0 |
| cis-1,3-Dichloropropene   | < 5.0 |
| trans-1,3-Dichloropropene | < 5.0 |
| Methylene chloride        | 6.8   |
| 1,1,2,2-Tetrachloroethane | < 5.0 |
| Tetrachloroethene         | < 5.0 |
| 1,1,1-Trichloroethane     | < 5.0 |
| 1,1,2-Trichloroethane     | < 5.0 |
| Trichloroethene           | < 5.0 |
| Trichlorofluoromethane    | < 5.0 |
| Vinyl chloride            | < 5.0 |
| Dichlorodifluoromethane   | < 5.0 |

NOTE: This analysis is equivalent to EPA Method 601/8010.





TO: Envirocon, Inc.  
ADDRESS: P.O. Box 1154  
Livingston, MT 59047LAB NO.: Blank III  
DATE: 02/26/92 rhSOIL ANALYSISHigh Concentration Method Blank III  
Analyzed 02/16/92RECEIVED  
FEB 27 1992ENVIROCON, Inc.  
Livingston, Mt.CONSTITUENTug/kg

## Purgeable Halocarbons (EPA Method 8260)

|                           |       |
|---------------------------|-------|
| Bromodichloromethane      | < 200 |
| Bromoform                 | < 200 |
| Bromomethane              | < 200 |
| Carbon tetrachloride      | < 200 |
| Chlorobenzene             | < 200 |
| Chloroethane              | < 200 |
| 2-Chloroethylvinyl ether  | < 200 |
| 2-Chlorotoluene           | < 200 |
| Chloroform                | < 200 |
| Chloromethane             | < 200 |
| Dibromochloromethane      | < 200 |
| 1,2-Dichlorobenzene       | < 200 |
| 1,3-Dichlorobenzene       | < 200 |
| 1,4-Dichlorobenzene       | < 200 |
| 1,1-Dichloroethane        | < 200 |
| 1,2-Dichloroethane        | < 200 |
| 1,1-Dichloroethene        | < 200 |
| cis-1,2-Dichloroethene    | < 200 |
| trans-1,2-Dichloroethene  | < 200 |
| 1,2-Dichloropropane       | < 200 |
| cis-1,3-Dichloropropene   | < 200 |
| trans-1,3-Dichloropropene | < 200 |
| Methylene chloride        | < 200 |
| 1,1,2,2-Tetrachloroethane | < 200 |
| Tetrachloroethene         | < 200 |
| 1,1,1-Trichloroethane     | < 200 |
| 1,1,2-Trichloroethane     | < 200 |
| Trichloroethene           | < 200 |
| Trichlorofluoromethane    | < 200 |
| Vinyl chloride            | < 200 |
| Dichlorodifluoromethane   | < 200 |

NOTE: This analysis is equivalent to EPA Method 601/8010.





ENERGY LABORATORIES, INC.

P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325  
LABORATORY REPORT FAX (406) 252-6069 • 1-800-735-4489

TO: Envirocon, Inc.  
ADDRESS: P.O. Box 1154  
Livingston, MT 59047

LAB NO.: Blank 1  
DATE: 02/26/92 rh

RECEIVED

FEB 27 1992

ENVIROCON, Inc.  
Livingston, Mt.

SOIL ANALYSIS

High Concentration Method Blank 1  
Analyzed 02/20/92

CONSTITUENT

µg/kg

Purgeable Halocarbons (EPA Method 8260)

|                           |       |
|---------------------------|-------|
| Bromodichloromethane      | < 200 |
| Bromoform                 | < 200 |
| Bromomethane              | < 200 |
| Carbon tetrachloride      | < 200 |
| Chlorobenzene             | < 200 |
| Chloroethane              | < 200 |
| 2-Chloroethylvinyl ether  | < 200 |
| 2-Chlorotoluene           | < 200 |
| Chloroform                | < 200 |
| Chloromethane             | < 200 |
| Dibromochloromethane      | < 200 |
| 1,2-Dichlorobenzene       | < 200 |
| 1,3-Dichlorobenzene       | < 200 |
| 1,4-Dichlorobenzene       | < 200 |
| 1,1-Dichloroethane        | < 200 |
| 1,2-Dichloroethane        | < 200 |
| 1,1-Dichloroethene        | < 200 |
| cis-1,2-Dichloroethene    | < 200 |
| trans-1,2-Dichloroethene  | < 200 |
| 1,2-Dichloropropane       | < 200 |
| cis-1,3-Dichloropropene   | < 200 |
| trans-1,3-Dichloropropene | < 200 |
| Methylene chloride        | < 200 |
| 1,1,2,2-Tetrachloroethane | < 200 |
| Tetrachloroethene         | < 200 |
| 1,1,1-Trichloroethane     | < 200 |
| 1,1,2-Trichloroethane     | < 200 |
| Trichloroethene           | < 200 |
| Trichlorofluoromethane    | < 200 |
| Vinyl chloride            | < 200 |
| Dichlorodifluoromethane   | < 200 |

NOTE: This analysis is equivalent to EPA Method 601/8010.





## **APPENDIX B**





# ENERGY LABORATORIES, INC.

P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325  
FAX (406) 252-6069 • 1-800-735-4489

## LABORATORY REPORT

TO: Envirocon, Inc.  
ADDRESS: P.O. Box 1154  
Livingston, MT 59047

LAB NO.: 92-5450  
DATE: 02/28/92 rh

### AIR ANALYSIS

Livingston/BN

140101-SG-068

Sampled 02/07/92 @ 0942

Submitted 02/12/92

Analyzed 02/19/92

*Part 1  
NEWEST Sample  
Sub to carbon with*

RECEIVED

MAR 02 1992

ENVIROCON, Inc.  
Livingston, MT

### CONSTITUENT

mg/m<sup>3</sup>

#### Purgeable Halocarbons (EPA Method 8260)

|                           |       |
|---------------------------|-------|
| Bromodichloromethane      | <2.5  |
| Bromoform                 | <2.5  |
| Bromomethane              | <2.5  |
| Carbon tetrachloride      | <2.5  |
| Chlorobenzene             | 3.2   |
| Chloroethane              | <2.5  |
| 2-Chloroethylvinyl ether  | <2.5  |
| 2-Chlorotoluene           | 16    |
| Chloroform                | <2.5  |
| Chloromethane             | <2.5  |
| Dibromochloromethane      | <2.5  |
| 1,2-Dichlorobenzene       | <2.5  |
| 1,3-Dichlorobenzene       | <2.5  |
| 1,4-Dichlorobenzene       | <2.5  |
| 1,1-Dichloroethane        | <2.5  |
| 1,2-Dichloroethane        | <2.5  |
| 1,1-Dichloroethene        | <2.5  |
| cis-1,2-Dichloroethene    | 112 * |
| trans-1,2-Dichloroethene  | 3.5   |
| 1,2-Dichloropropane       | <2.5  |
| cis-1,3-Dichloropropene   | <2.5  |
| trans-1,3-Dichloropropene | <2.5  |
| Methylene chloride        | <2.5  |
| 1,1,2,2-Tetrachloroethane | <2.5  |
| Tetrachloroethene         | <2.5  |
| 1,1,1-Trichloroethane     | <2.5  |
| 1,1,2-Trichloroethane     | <2.5  |
| Trichloroethene           | <2.5  |
| Trichlorofluoromethane    | <2.5  |
| Vinyl chloride            | <2.5  |
| Dichlorodifluoromethane   | <2.5  |
| Total VOC Response        | 282   |

NOTE: This analysis is equivalent to EPA Method 601/8010.

\* Value derived from a 5x dilution of the sample.







# ENERGY LABORATORIES, INC.

P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325  
FAX (406) 252-6069 • 1-800-735-4489

## LABORATORY REPORT

TO: Envirocon, Inc.  
ADDRESS: P.O. Box 1154  
Livingston, MT 59047

LAB NO.: 92-5451  
DATE: 02/28/92 rh

### AIR ANALYSIS

Livingston/BN  
140101-SG-069

Sampled 02/08/92 @ 1038

Submitted 02/12/92

Analyzed 02/21/92

*VIEW 7PSamp  
Effluent  
to atmosphere*

RECEIVED  
MAR 02 1992

Envirocon, Inc.  
Livingston, MT

### CONSTITUENT

mg/m<sup>3</sup>

#### Purgeable Halocarbons (EPA Method 8260)

|                           |      |
|---------------------------|------|
| Bromodichloromethane      | <2.5 |
| Bromoform                 | <2.5 |
| Bromomethane              | <2.5 |
| Carbon tetrachloride      | <2.5 |
| Chlorobenzene             | <2.5 |
| Chloroethane              | <2.5 |
| 2-Chloroethylvinyl ether  | <2.5 |
| 2-Chlorotoluene           | <2.5 |
| Chloroform                | <2.5 |
| Chloromethane             | <2.5 |
| Dibromochloromethane      | <2.5 |
| 1,2-Dichlorobenzene       | <2.5 |
| 1,3-Dichlorobenzene       | <2.5 |
| 1,4-Dichlorobenzene       | <2.5 |
| 1,1-Dichloroethane        | <2.5 |
| 1,2-Dichloroethane        | <2.5 |
| 1,1-Dichloroethene        | <2.5 |
| cis-1,2-Dichloroethene    | <2.5 |
| trans-1,2-Dichloroethene  | <2.5 |
| 1,2-Dichloropropane       | <2.5 |
| cis-1,3-Dichloropropene   | <2.5 |
| trans-1,3-Dichloropropene | <2.5 |
| Methylene chloride        | <2.5 |
| 1,1,2,2-Tetrachloroethane | <2.5 |
| Tetrachloroethene         | <2.5 |
| 1,1,1-Trichloroethane     | <2.5 |
| 1,1,2-Trichloroethane     | <2.5 |
| Trichloroethene           | <2.5 |
| Trichlorofluoromethane    | <2.5 |
| Vinyl chloride            | <2.5 |
| Dichlorodifluoromethane   | <2.5 |
| Total VOC Response        | <30  |

NOTE: This analysis is equivalent to EPA Method 601/8010.





# ENERGY LABORATORIES, INC.

P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325  
FAX (406) 252-6069 • 1-800-735-4489

m 3/2/92

## LABORATORY REPORT

TO: Envirocon, Inc.  
ADDRESS: P.O. Box 1154  
Livingston, MT 59047

LAB NO.: 92-5452  
DATE: 02/28/92 rh

AIR ANALYSIS  
Livingston/BN  
140101-SG-070  
Sampled 02/08/92 @ 1040  
Submitted 02/12/92  
Analyzed 02/21/92

SWELWTP  
Sample  
Between  
1st & 2nd  
Carbon units

RECEIVED  
MAR 02 1992  
ENVIROCON, Inc.  
Livingston, MT

### CONSTITUENT

mg/m<sup>3</sup>

#### Purgeable Halocarbons (EPA Method 8260)

|                           |      |
|---------------------------|------|
| Bromodichloromethane      | <2.5 |
| Bromoform                 | <2.5 |
| Bromomethane              | <2.5 |
| Carbon tetrachloride      | <2.5 |
| Chlorobenzene             | <2.5 |
| Chloroethane              | <2.5 |
| 2-Chloroethylvinyl ether  | <2.5 |
| 2-Chlorotoluene           | <2.5 |
| Chloroform                | <2.5 |
| Chloromethane             | <2.5 |
| Dibromochloromethane      | <2.5 |
| 1,2-Dichlorobenzene       | <2.5 |
| 1,3-Dichlorobenzene       | <2.5 |
| 1,4-Dichlorobenzene       | <2.5 |
| 1,1-Dichloroethane        | <2.5 |
| 1,2-Dichloroethane        | <2.5 |
| 1,1-Dichloroethene        | <2.5 |
| cis-1,2-Dichloroethene    | 4.7  |
| trans-1,2-Dichloroethene  | <2.5 |
| 1,2-Dichloropropane       | <2.5 |
| cis-1,3-Dichloropropene   | <2.5 |
| trans-1,3-Dichloropropene | <2.5 |
| Methylene chloride        | <2.5 |
| 1,1,2,2-Tetrachloroethane | <2.5 |
| Tetrachloroethene         | <2.5 |
| 1,1,1-Trichloroethane     | <2.5 |
| 1,1,2-Trichloroethane     | <2.5 |
| Trichloroethene           | <2.5 |
| Trichlorofluoromethane    | <2.5 |
| Vinyl chloride            | <2.5 |
| Dichlorodifluoromethane   | <2.5 |
| Total VOC Response        | <30  |

NOTE: This analysis is equivalent to EPA Method 601/8010.





# ENERGY LABORATORIES, INC.

P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325  
FAX (406) 252-6069 • 1-800-735-4489

1/32/92

## LABORATORY REPORT

TO: Envirocon, Inc.  
ADDRESS: P.O. Box 1154  
Livingston, MT 59047

LAB NO.: 92-5453  
DATE: 02/28/92 rh

### AIR ANALYSIS

Livingston/BN  
140101-SG-071

Sampled 02/10/92 @ 0858

Submitted 02/12/92

Analyzed 02/21/92

Upstream  
100 carbon  
unit

RECEIVED

MAR 02 1992

ENVIROCON, Inc.  
Livingston, MT

### CONSTITUENT

mg/m<sup>3</sup>

#### Purgeable Halocarbons (EPA Method 8260)

|                           |       |
|---------------------------|-------|
| Bromodichloromethane      | < 2.5 |
| Bromoform                 | < 2.5 |
| Bromomethane              | < 2.5 |
| Carbon tetrachloride      | < 2.5 |
| Chlorobenzene             | 6.2   |
| Chloroethane              | < 2.5 |
| 2-Chloroethylvinyl ether  | < 2.5 |
| 2-Chlorotoluene           | 29 *  |
| Chloroform                | < 2.5 |
| Chloromethane             | < 2.5 |
| Dibromochloromethane      | < 2.5 |
| 1,2-Dichlorobenzene       | < 2.5 |
| 1,3-Dichlorobenzene       | < 2.5 |
| 1,4-Dichlorobenzene       | < 2.5 |
| 1,1-Dichloroethane        | < 2.5 |
| 1,2-Dichloroethane        | < 2.5 |
| 1,1-Dichloroethene        | < 2.5 |
| cis-1,2-Dichloroethene    | 75 *  |
| trans-1,2-Dichloroethene  | < 2.5 |
| 1,2-Dichloropropane       | < 2.5 |
| cis-1,3-Dichloropropene   | < 2.5 |
| trans-1,3-Dichloropropene | < 2.5 |
| Methylene chloride        | < 2.5 |
| 1,1,2,2-Tetrachloroethane | < 2.5 |
| Tetrachloroethene         | 3.7   |
| 1,1,1-Trichloroethane     | < 2.5 |
| 1,1,2-Trichloroethane     | < 2.5 |
| Trichloroethene           | < 2.5 |
| Trichlorofluoromethane    | < 2.5 |
| Vinyl chloride            | < 2.5 |
| Dichlorodifluoromethane   | < 2.5 |
| Total VOC Response        | 414   |

NOTE: This analysis is equivalent to EPA Method 601/8010.

\* Value derived from a 5x dilution of the sample.





ENERGY LABORATORIES, INC.

P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325  
FAX (406) 252-6069 • 1-800-735-4489

m 3/19/92

March 17, 1992

RECEIVED  
MAR 18 1992  
ENVIROCON, Inc.  
Livingston, Mt.

Envirocon, Inc.  
P.O. Box 1154  
Livingston, MT 59047

On March 2, 1992 these samples, represented by our laboratory numbers 92-8667 to 92-8669, were submitted to our laboratory for analysis.

The test results and quality assurance were reviewed and approved by the undersigned.

Reviewed by:

for Stanley





**LABORATORY REPORT**

TO: Envirocon, Inc.  
ADDRESS: P.O. Box 1154  
Livingston, MT 59047

LAB NO.: 92-8667  
DATE: 03/17/92 crp

**AIR ANALYSIS**

Livingston/BN  
140101-SG-072  
Sampled 02/27/92 @ 0815  
Submitted 03/02/92  
Analyzed 03/11/92

*SVE  
Recomatune Shop  
Upstream 125  
Carbon unit*

**RECEIVED**

MAR 18 1992

ENVIROCON, Inc.  
Livingston, MT

| <u>Volatile Organic Constituent</u> | <u>mg/m<sup>3</sup></u> | <u>Volatile Organic Constituent</u> | <u>mg/m<sup>3</sup></u> |
|-------------------------------------|-------------------------|-------------------------------------|-------------------------|
| Benzene                             | < 2.5                   | 1,3-Dichloropropane                 | < 2.5                   |
| Bromobenzene                        | < 2.5                   | 2,2-Dichloropropane                 | < 2.5                   |
| Bromochloromethane                  | < 2.5                   | 1,1-Dichloropropene                 | < 2.5                   |
| Bromodichloromethane                | < 2.5                   | cis-1,3-Dichloropropene             | < 2.5                   |
| Bromoform                           | < 2.5                   | trans-1,3-Dichloropropene           | < 2.5                   |
| Bromomethane                        | < 2.5                   | Ethylbenzene                        | < 2.5                   |
| n-Butylbenzene                      | < 2.5                   | Hexachlorobutadiene                 | < 2.5                   |
| sec-Butylbenzene                    | < 2.5                   | Isopropylbenzene                    | < 2.5                   |
| tert-Butylbenzene                   | < 2.5                   | p-Isopropyltoluene                  | < 2.5                   |
| Carbon tetrachloride                | < 2.5                   | Methylene chloride                  | < 2.5                   |
| Chlorobenzene                       | < 2.5                   | Naphthalene                         | < 2.5                   |
| Chloroethane                        | < 2.5                   | n-Propylbenzene                     | < 2.5                   |
| Chloroform                          | 4.5                     | Styrene                             | < 2.5                   |
| Chloromethane                       | < 2.5                   | 1,1,1,2-Tetrachloroethane           | < 2.5                   |
| 2-Chlorotoluene                     | < 2.5                   | 1,1,2,2-Tetrachloroethane           | < 2.5                   |
| 4-Chlorotoluene                     | < 2.5                   | Tetrachloroethene                   | 620                     |
| 1,2-Dibromo-3-chloropropane         | < 2.5                   | Toluene                             | < 2.5                   |
| Dibromochloromethane                | < 2.5                   | 1,2,3-Trichlorobenzene              | < 2.5                   |
| 1,2-Dibromoethane                   | < 2.5                   | 1,2,4-Trichlorobenzene              | < 2.5                   |
| Dibromomethane                      | < 2.5                   | 1,1,1-Trichloroethane               | < 2.5                   |
| 1,2-Dichlorobenzene                 | < 2.5                   | 1,1,2-Trichloroethane               | < 2.5                   |
| 1,3-Dichlorobenzene                 | < 2.5                   | Trichloroethene                     | 10                      |
| 1,4-Dichlorobenzene                 | < 2.5                   | Trichlorofluoromethane              | < 2.5                   |
| Dichlorodifluoromethane             | < 2.5                   | 1,2,3-Trichloropropane              | < 2.5                   |
| 1,1-Dichloroethane                  | < 2.5                   | 1,2,4-Trimethylbenzene              | < 2.5                   |
| 1,2-Dichloroethane                  | < 2.5                   | 1,3,5-Trimethylbenzene              | < 2.5                   |
| 1,1-Dichloroethene                  | < 2.5                   | Vinyl chloride                      | < 2.5                   |
| cis-1,2-Dichloroethene              | 25                      | Xylenes                             | < 2.5                   |
| trans-1,2-Dichloroethene            | < 2.5                   | Total Volatile Response             | 681                     |
| 1,2-Dichloropropane                 | < 2.5                   |                                     |                         |

Exceeds linear range of curve.



**ENERGY LABORATORIES, INC.**P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325  
FAX (406) 252-6069 • 1-800-735-4489**LABORATORY REPORT**

m 3/19/92

**TO:** Envirocon, Inc.  
**ADDRESS:** P.O. Box 1154  
Livingston, MT 59047**LAB NO.:** 92-8668  
**DATE:** 03/17/92 crp**AIR ANALYSIS**Livingston/BN  
140101-SG-073  
Sampled 02/27/92 @ 0820  
Submitted 03/02/92  
Analyzed 03/11/92*SUE  
Indoor Air  
Chamber  
Altoona St  
Carbon unit***RECEIVED**

MAR 18 1992

ENVIROCON, INC.  
Livingston, MT

| <u>Volatile Organic Constituent</u> | <u>mg/m<sup>3</sup></u> | <u>Volatile Organic Constituent</u> | <u>mg/m<sup>3</sup></u> |
|-------------------------------------|-------------------------|-------------------------------------|-------------------------|
| Benzene                             | <2.5                    | 1,3-Dichloropropane                 | <2.5                    |
| Bromobenzene                        | <2.5                    | 2,2-Dichloropropane                 | <2.5                    |
| Bromochloromethane                  | <2.5                    | 1,1-Dichloropropene                 | <2.5                    |
| Bromodichloromethane                | <2.5                    | cis-1,3-Dichloropropene             | <2.5                    |
| Bromoform                           | <2.5                    | trans-1,3-Dichloropropene           | <2.5                    |
| Bromomethane                        | <2.5                    | Ethylbenzene                        | <2.5                    |
| n-Butylbenzene                      | <2.5                    | Hexachlorobutadiene                 | <2.5                    |
| sec-Butylbenzene                    | <2.5                    | Isopropylbenzene                    | <2.5                    |
| tert-Butylbenzene                   | <2.5                    | p-Isopropyltoluene                  | <2.5                    |
| Carbon tetrachloride                | <2.5                    | Methylene chloride                  | <2.5                    |
| Chlorobenzene                       | 800 *                   | Naphthalene                         | <2.5                    |
| Chloroethane                        | <2.5                    | n-Propylbenzene                     | <2.5                    |
| Chloroform                          | <2.5                    | Styrene                             | <2.5                    |
| Chloromethane                       | <2.5                    | 1,1,1,2-Tetrachloroethane           | <2.5                    |
| 2-Chlorotoluene                     | 10.9                    | 1,1,2,2-Tetrachloroethane           | <2.5                    |
| 4-Chlorotoluene                     | <2.5                    | Tetrachloroethene                   | 5.1                     |
| 1,2-Dibromo-3-chloropropane         | <2.5                    | Toluene                             | <2.5                    |
| Dibromochloromethane                | <2.5                    | 1,2,3-Trichlorobenzene              | <2.5                    |
| 1,2-Dibromoethane                   | <2.5                    | 1,2,4-Trichlorobenzene              | <2.5                    |
| Dibromomethane                      | <2.5                    | 1,1,1-Trichloroethane               | <2.5                    |
| 1,2-Dichlorobenzene                 | 200 *                   | 1,1,2-Trichloroethane               | <2.5                    |
| 1,3-Dichlorobenzene                 | 16.2                    | Trichloroethene                     | <2.5                    |
| 1,4-Dichlorobenzene                 | 32.5                    | Trichlorofluoromethane              | <2.5                    |
| Dichlorodifluoromethane             | <2.5                    | 1,2,3-Trichloropropane              | <2.5                    |
| 1,1-Dichloroethane                  | <2.5                    | 1,2,4-Trimethylbenzene              | 3.4                     |
| 1,2-Dichloroethane                  | <2.5                    | 1,3,5-Trimethylbenzene              | <2.5                    |
| 1,1-Dichloroethene                  | <2.5                    | Vinyl chloride                      | <2.5                    |
| cis-1,2-Dichloroethene              | 4.4                     | Xylenes                             | 4.5                     |
| trans-1,2-Dichloroethene            | <2.5                    | Total Volatile Response             | 2080                    |
| 1,2-Dichloropropane                 | <2.5                    |                                     |                         |

\* Exceeds linear range of curve.



**LABORATORY REPORT**TO: Envirocon, Inc.  
ADDRESS: P.O. Box 1154  
Livingston, MT 59047LAB NO.: 92-8669  
DATE: 03/17/92 crp**AIR ANALYSIS**Livingston/BN  
140101-SG-074  
Sampled 02/27/92 @ 0830  
Submitted 03/02/92  
Analyzed 03/11/92*SVE WWP Compound  
Upstream, 1, 2, 3  
Carbon unit***RECEIVED**

MAR 18 1992

Envirocon, Inc.  
Livingston, MT

| <u>Volatile Organic Constituent</u> | <u>mg/m<sup>3</sup></u> | <u>Volatile Organic Constituent</u> | <u>mg/m<sup>3</sup></u> |
|-------------------------------------|-------------------------|-------------------------------------|-------------------------|
| Benzene                             | < 2.5                   | 1,3-Dichloropropane                 | < 2.5                   |
| Bromobenzene                        | < 2.5                   | 2,2-Dichloropropane                 | < 2.5                   |
| Bromochloromethane                  | < 2.5                   | 1,1-Dichloropropene                 | < 2.5                   |
| Bromodichloromethane                | < 2.5                   | cis-1,3-Dichloropropene             | < 2.5                   |
| Bromoform                           | < 2.5                   | trans-1,3-Dichloropropene           | < 2.5                   |
| Bromomethane                        | < 2.5                   | Ethylbenzene                        | < 2.5                   |
| n-Butylbenzene                      | < 2.5                   | Hexachlorobutadiene                 | < 2.5                   |
| sec-Butylbenzene                    | < 2.5                   | Isopropylbenzene                    | < 2.5                   |
| tert-Butylbenzene                   | < 2.5                   | p-Isopropyltoluene                  | < 2.5                   |
| Carbon tetrachloride                | < 2.5                   | Methylene chloride                  | < 2.5                   |
| Chlorobenzene                       | 15                      | Naphthalene                         | < 2.5                   |
| Chloroethane                        | < 2.5                   | n-Propylbenzene                     | < 2.5                   |
| Chloroform                          | < 2.5                   | Styrene                             | < 2.5                   |
| Chloromethane                       | < 2.5                   | 1,1,1,2-Tetrachloroethane           | < 2.5                   |
| 2-Chlorotoluene                     | < 2.5                   | 1,1,2,2-Tetrachloroethane           | < 2.5                   |
| 4-Chlorotoluene                     | < 2.5                   | Tetrachloroethene                   | 32 *                    |
| 1,2-Dibromo-3-chloropropane         | < 2.5                   | Toluene                             | < 2.5                   |
| Dibromochloromethane                | < 2.5                   | 1,2,3-Trichlorobenzene              | < 2.5                   |
| 1,2-Dibromoethane                   | < 2.5                   | 1,2,4-Trichlorobenzene              | < 2.5                   |
| Dibromomethane                      | < 2.5                   | 1,1,1-Trichloroethane               | < 2.5                   |
| 1,2-Dichlorobenzene                 | < 2.5                   | 1,1,2-Trichloroethane               | < 2.5                   |
| 1,3-Dichlorobenzene                 | < 2.5                   | Trichloroethene                     | 30                      |
| 1,4-Dichlorobenzene                 | < 2.5                   | Trichlorofluoromethane              | < 2.5                   |
| Dichlorodifluoromethane             | < 2.5                   | 1,2,3-Trichloropropane              | < 2.5                   |
| 1,1-Dichloroethane                  | < 2.5                   | 1,2,4-Trimethylbenzene              | < 2.5                   |
| 1,2-Dichloroethane                  | < 2.5                   | 1,3,5-Trimethylbenzene              | < 2.5                   |
| 1,1-Dichloroethene                  | < 2.5                   | Vinyl chloride                      | < 2.5                   |
| cis-1,2-Dichloroethene              | 150 *                   | Xylenes                             | < 2.5                   |
| trans-1,2-Dichloroethene            | < 2.5                   | Total Volatile Response             | 227                     |
| 1,2-Dichloropropane                 | < 2.5                   |                                     |                         |

\* Value derived from a 5x dilution of the sample.







**ENERGY LABORATORIES, INC.**

P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325  
FAX (406) 252-6069 • 1-800-735-4489

3/19/92

**RECEIVED**

**MAR 19 1992**

**ENVIROCON, Inc.  
Livingston, Mt.**

March 18, 1992

Envirocon, Inc.  
P.O. Box 1154  
Livingston, MT 59047

On March 2, 1992, these samples, represented by our laboratory numbers 92-8674 to 92-8682 were submitted to our laboratory for analysis.

The test results and quality assurance were reviewed and approved by the undersigned.

Reviewed by: \_\_\_\_\_





**ENERGY LABORATORIES, INC.**P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325  
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W 3/19/92

**LABORATORY REPORT**TO: Envirocon, Inc.  
ADDRESS: P.O. Box 1154  
Livingston, MT 59047LAB NO.: 92-8674  
DATE: 03/18/92 rh**AIR ANALYSIS**Livingston/BN  
140101-SG-075  
Sampled 02/28/92 @ 0830  
Submitted 03/02/92  
Analyzed 03/11/92*SUE WWTP Sump  
discharge to  
atmosphere***RECEIVED**

MAR 19 1992

ENVIROCON, Inc.  
Livingston, MT

| <u>Volatile Organic Constituent</u> | <u>mg/m<sup>3</sup></u> | <u>Volatile Organic Constituent</u> | <u>mg/m<sup>3</sup></u> |
|-------------------------------------|-------------------------|-------------------------------------|-------------------------|
| Benzene                             | < 2.5                   | 1,3-Dichloropropane                 | < 2.5                   |
| Bromobenzene                        | < 2.5                   | 2,2-Dichloropropane                 | < 2.5                   |
| Bromochloromethane                  | < 2.5                   | 1,1-Dichloropropene                 | < 2.5                   |
| Bromodichloromethane                | < 2.5                   | cis-1,3-Dichloropropene             | < 2.5                   |
| Bromoform                           | < 2.5                   | trans-1,3-Dichloropropene           | < 2.5                   |
| Bromomethane                        | < 2.5                   | Ethylbenzene                        | < 2.5                   |
| n-Butylbenzene                      | < 2.5                   | Hexachlorobutadiene                 | < 2.5                   |
| sec-Butylbenzene                    | < 2.5                   | Isopropylbenzene                    | < 2.5                   |
| tert-Butylbenzene                   | < 2.5                   | p-Isopropyltoluene                  | < 2.5                   |
| Carbon tetrachloride                | < 2.5                   | Methylene chloride                  | < 2.5                   |
| Chlorobenzene                       | < 2.5                   | Naphthalene                         | < 2.5                   |
| Chloroethane                        | < 2.5                   | n-Propylbenzene                     | < 2.5                   |
| Chloroform                          | < 2.5                   | Styrene                             | < 2.5                   |
| Chloromethane                       | < 2.5                   | 1,1,1,2-Tetrachloroethane           | < 2.5                   |
| 2-Chlorotoluene                     | < 2.5                   | 1,1,2,2-Tetrachloroethane           | < 2.5                   |
| 4-Chlorotoluene                     | < 2.5                   | Tetrachloroethene                   | < 2.5                   |
| 1,2-Dibromo-3-chloropropane         | < 2.5                   | Toluene                             | < 2.5                   |
| Dibromochloromethane                | < 2.5                   | 1,2,3-Trichlorobenzene              | < 2.5                   |
| 1,2-Dibromoethane                   | < 2.5                   | 1,2,4-Trichlorobenzene              | < 2.5                   |
| Dibromomethane                      | < 2.5                   | 1,1,1-Trichloroethane               | < 2.5                   |
| 1,2-Dichlorobenzene                 | < 2.5                   | 1,1,2-Trichloroethane               | < 2.5                   |
| 1,3-Dichlorobenzene                 | < 2.5                   | Trichloroethene                     | < 2.5                   |
| 1,4-Dichlorobenzene                 | < 2.5                   | Trichlorofluoromethane              | < 2.5                   |
| Dichlorodifluoromethane             | < 2.5                   | 1,2,3-Trichloropropane              | < 2.5                   |
| 1,1-Dichloroethane                  | < 2.5                   | 1,2,4-Trimethylbenzene              | < 2.5                   |
| 1,2-Dichloroethane                  | < 2.5                   | 1,3,5-Trimethylbenzene              | < 2.5                   |
| 1,1-Dichloroethene                  | < 2.5                   | Vinyl chloride                      | < 2.5                   |
| cis-1,2-Dichloroethene              | < 2.5                   | Xylenes                             | < 2.5                   |
| trans-1,2-Dichloroethene            | < 2.5                   | Total Volatiles Response            | < 30                    |
| 1,2-Dichloropropane                 | < 2.5                   |                                     |                         |



m 3/19/92

**LABORATORY REPORT****TO:** Envirocon, Inc.  
**ADDRESS:** P.O. Box 1154  
Livingston, MT 59047**LAB NO.:** 92-8675  
**DATE:** 03/18/92 rh**RECEIVED****MAR 19 1992****AIR ANALYSIS**Livingston/BN  
140101-SG-076  
Sampled 02/28/92 @ 0835  
Submitted 03/02/92  
Analyzed 03/11/92*SUE WWP Sample  
Between  
units***ENVIROCON, Inc.**  
Livingston, Mt.

| <u>Volatile Organic Constituent</u> | <u>mg/m<sup>3</sup></u> | <u>Volatile Organic Constituent</u> | <u>mg/m<sup>3</sup></u> |
|-------------------------------------|-------------------------|-------------------------------------|-------------------------|
| Benzene                             | <2.5                    | 1,3-Dichloropropane                 | <2.5                    |
| Bromobenzene                        | <2.5                    | 2,2-Dichloropropane                 | <2.5                    |
| Bromochloromethane                  | <2.5                    | 1,1-Dichloropropene                 | <2.5                    |
| Bromodichloromethane                | <2.5                    | cis-1,3-Dichloropropane             | <2.5                    |
| Bromoform                           | <2.5                    | trans-1,3-Dichloropropene           | <2.5                    |
| Bromomethane                        | <2.5                    | Ethylbenzene                        | <2.5                    |
| n-Butylbenzene                      | <2.5                    | Hexachlorobutadiene                 | <2.5                    |
| sec-Butylbenzene                    | <2.5                    | Isopropylbenzene                    | <2.5                    |
| tert-Butylbenzene                   | <2.5                    | p-isopropyltoluene                  | <2.5                    |
| Carbon tetrachloride                | <2.5                    | Methylene chloride                  | <2.5                    |
| Chlorobenzene                       | <2.5                    | Naphthalene                         | <2.5                    |
| Chloroethane                        | <2.5                    | n-Propylbenzene                     | <2.5                    |
| Chloroform                          | <2.5                    | Styrene                             | <2.5                    |
| Chloromethane                       | <2.5                    | 1,1,1,2-Tetrachloroethane           | <2.5                    |
| 2-Chlorotoluene                     | <2.5                    | 1,1,2,2-Tetrachloroethane           | <2.5                    |
| 4-Chlorotoluene                     | <2.5                    | Tetrachloroethene                   | <2.5                    |
| 1,2-Dibromo-3-chloropropane         | <2.5                    | Toluene                             | <2.5                    |
| Dibromochloromethane                | <2.5                    | 1,2,3-Trichlorobenzene              | <2.5                    |
| 1,2-Dibromoethane                   | <2.5                    | 1,2,4-Trichlorobenzene              | <2.5                    |
| Dibromomethane                      | <2.5                    | 1,1,1-Trichloroethane               | <2.5                    |
| 1,2-Dichlorobenzene                 | <2.5                    | 1,1,2-Trichloroethane               | <2.5                    |
| 1,3-Dichlorobenzene                 | <2.5                    | Trichloroethene                     | <2.5                    |
| 1,4-Dichlorobenzene                 | <2.5                    | Trichlorofluoromethane              | <2.5                    |
| Dichlorodifluoromethane             | <2.5                    | 1,2,3-Trichloropropane              | <2.5                    |
| 1,1-Dichloroethane                  | <2.5                    | 1,2,4-Trimethylbenzene              | <2.5                    |
| 1,2-Dichloroethane                  | <2.5                    | 1,3,5-Trimethylbenzene              | <2.5                    |
| 1,1-Dichloroethene                  | <2.5                    | Vinyl chloride                      | <2.5                    |
| cis-1,2-Dichloroethene              | <2.5                    | Xylenes                             | <2.5                    |
| trans-1,2-Dichloroethene            | <2.5                    | Total Volatiles Response            | <30                     |
| 1,2-Dichloropropane                 | <2.5                    |                                     |                         |



m3/9/92

**LABORATORY REPORT**

TO: Envirocon, Inc.  
ADDRESS: P.O. Box 1154  
Livingston, MT 59047

LAB NO.: 92-8676  
DATE: 03/18/92 rh

**RECEIVED****MAR 19 1992**ENVIROCON, Inc.  
Livingston, MT**AIR ANALYSIS**

Livingston/BN  
140101-SG-077  
Sampled 02/28/92 @ 0840  
Submitted 03/02/92  
Analyzed 03/11/92

*SUE WTP Sample  
Before carbon  
units*

| <u>Volatile Organic Constituent</u> | <u>mg/m<sup>3</sup></u> | <u>Volatile Organic Constituent</u> | <u>mg/m<sup>3</sup></u> |
|-------------------------------------|-------------------------|-------------------------------------|-------------------------|
| Benzene                             | <2.5                    | 1,3-Dichloropropane                 | <2.5                    |
| Bromobenzene                        | <2.5                    | 2,2-Dichloropropane                 | <2.5                    |
| Bromochloromethane                  | <2.5                    | 1,1-Dichloropropene                 | <2.5                    |
| Bromodichloromethane                | <2.5                    | cis-1,3-Dichloropropene             | <2.5                    |
| Bromoform                           | <2.5                    | trans-1,3-Dichloropropene           | <2.5                    |
| Bromomethane                        | <2.5                    | Ethylbenzene                        | <2.5                    |
| n-Butylbenzene                      | <2.5                    | Hexachlorobutadiene                 | <2.5                    |
| sec-Butylbenzene                    | <2.5                    | Isopropylbenzene                    | <2.5                    |
| tert-Butylbenzene                   | <2.5                    | p-Isopropyltoluene                  | <2.5                    |
| Carbon tetrachloride                | <2.5                    | Methylene chloride                  | <2.5                    |
| Chlorobenzene                       | 5.2                     | Naphthalene                         | <2.5                    |
| Chloroethane                        | <2.5                    | n-Propylbenzene                     | <2.5                    |
| Chloroform                          | <2.5                    | Styrene                             | <2.5                    |
| Chloromethane                       | <2.5                    | 1,1,1,2-Tetrachloroethane           | <2.5                    |
| 2-Chlorotoluene                     | 15                      | 1,1,2,2-Tetrachloroethane           | <2.5                    |
| 4-Chlorotoluene                     | <2.5                    | Tetrachloroethene                   | 3.4                     |
| 1,2-Dibromo-3-chloropropane         | <2.5                    | Toluene                             | <2.5                    |
| Dibromochloromethane                | <2.5                    | 1,2,3-Trichlorobenzene              | <2.5                    |
| 1,2-Dibromoethane                   | <2.5                    | 1,2,4-Trichlorobenzene              | <2.5                    |
| Dibromomethane                      | <2.5                    | 1,1,1-Trichloroethane               | <2.5                    |
| 1,2-Dichlorobenzene                 | <2.5                    | 1,1,2-Trichloroethane               | <2.5                    |
| 1,3-Dichlorobenzene                 | <2.5                    | Trichloroethene                     | <2.5                    |
| 1,4-Dichlorobenzene                 | <2.5                    | Trichlorofluoromethane              | <2.5                    |
| Dichlorodifluoromethane             | <2.5                    | 1,2,3-Trichloropropane              | <2.5                    |
| 1,1-Dichloroethane                  | <2.5                    | 1,2,4-Trimethylbenzene              | <2.5                    |
| 1,2-Dichloroethane                  | <2.5                    | 1,3,5-Trimethylbenzene              | <2.5                    |
| 1,1-Dichloroethene                  | <2.5                    | Vinyl chloride                      | <2.5                    |
| cis-1,2-Dichloroethene              | 47                      | Xylenes                             | <2.5                    |
| trans-1,2-Dichloroethene            | <2.5                    | Total Volatiles Response            | 240                     |
| 1,2-Dichloropropane                 | <2.5                    |                                     |                         |







# ENERGY LABORATORIES, INC.

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m 3/19/92

## LABORATORY REPORT

TO: Envirocon, Inc.  
ADDRESS: P.O. Box 1154  
Livingston, MT 59047

LAB NO.: 92-8677  
DATE: 03/18/92 rh

### AIR ANALYSIS

Livingston/BN  
140101-SG-078  
Sampled 02/28/92 @ 1000  
Submitted 03/02/92  
Analyzed 03/11/92

*SVE WWTP (ground)  
Between carbon  
units*

**RECEIVED**  
MAR 19 1992  
ENVIROCON, Inc.  
Livingston, MT

| <u>Volatile Organic Constituent</u> | <u>mg/m<sup>3</sup></u> | <u>Volatile Organic Constituent</u> | <u>mg/m<sup>3</sup></u> |
|-------------------------------------|-------------------------|-------------------------------------|-------------------------|
| Benzene                             | < 2.5                   | 1,3-Dichloropropane                 | < 2.5                   |
| Bromobenzene                        | < 2.5                   | 2,2-Dichloropropane                 | < 2.5                   |
| Bromochloromethane                  | < 2.5                   | 1,1-Dichloropropene                 | < 2.5                   |
| Bromodichloromethane                | < 2.5                   | cis-1,3-Dichloropropene             | < 2.5                   |
| Bromoform                           | < 2.5                   | trans-1,3-Dichloropropene           | < 2.5                   |
| Bromomethane                        | < 2.5                   | Ethylbenzene                        | < 2.5                   |
| n-Butylbenzene                      | < 2.5                   | Hexachlorobutadiene                 | < 2.5                   |
| sec-Butylbenzene                    | < 2.5                   | Isopropylbenzene                    | < 2.5                   |
| tert-Butylbenzene                   | < 2.5                   | p-Isopropyltoluene                  | < 2.5                   |
| Carbon tetrachloride                | < 2.5                   | Methylene chloride                  | < 2.5                   |
| Chlorobenzene                       | < 2.5                   | Naphthalene                         | < 2.5                   |
| Chloroethane                        | < 2.5                   | n-Propylbenzene                     | < 2.5                   |
| Chloroform                          | < 2.5                   | Styrene                             | < 2.5                   |
| Chloromethane                       | < 2.5                   | 1,1,1,2-Tetrachloroethane           | < 2.5                   |
| 2-Chlorotoluene                     | < 2.5                   | 1,1,2,2-Tetrachloroethane           | < 2.5                   |
| 4-Chlorotoluene                     | < 2.5                   | Tetrachloroethene                   | < 2.5                   |
| 1,2-Dibromo-3-chloropropane         | < 2.5                   | Toluene                             | < 2.5                   |
| Dibromochloromethane                | < 2.5                   | 1,2,3-Trichlorobenzene              | < 2.5                   |
| 1,2-Dibromoethane                   | < 2.5                   | 1,2,4-Trichlorobenzene              | < 2.5                   |
| Dibromomethane                      | < 2.5                   | 1,1,1-Trichloroethane               | < 2.5                   |
| 1,2-Dichlorobenzene                 | < 2.5                   | 1,1,2-Trichloroethane               | < 2.5                   |
| 1,3-Dichlorobenzene                 | < 2.5                   | Trichloroethene                     | < 2.5                   |
| 1,4-Dichlorobenzene                 | < 2.5                   | Trichlorofluoromethane              | < 2.5                   |
| Dichlorodifluoromethane             | < 2.5                   | 1,2,3-Trichloropropane              | < 2.5                   |
| 1,1-Dichloroethane                  | < 2.5                   | 1,2,4-Trimethylbenzene              | < 2.5                   |
| 1,2-Dichloroethane                  | < 2.5                   | 1,3,5-Trimethylbenzene              | < 2.5                   |
| 1,1-Dichloroethene                  | < 2.5                   | Vinyl chloride                      | < 2.5                   |
| cis-1,2-Dichloroethene              | < 2.5                   | Xylenes                             | < 2.5                   |
| trans-1,2-Dichloroethene            | < 2.5                   | Total Volatiles Response            | < 30                    |
| 1,2-Dichloropropane                 | < 2.5                   |                                     |                         |







## ENERGY LABORATORIES, INC.

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FAX (406) 252-6069 • 1-800-735-4489

m 3/19/92

## LABORATORY REPORT

TO: Envirocon, Inc.  
ADDRESS: P.O. Box 1154  
Livingston, MT 59047LAB NO.: 92-8678  
DATE: 03/18/92 rh

## AIR ANALYSIS

Livingston/BN  
140101-SG-079  
Sampled 02/28/92 @ 1010  
Submitted 03/02/92  
Analyzed 03/11/92*SUE WUSTP Compared  
Billings to atmosphere*  
**RECEIVED**  
MAR 19 1992  
ENVIROCON, Inc.  
Livingston, Mt.

| <u>Volatile Organic Constituent</u> | <u>mg/m<sup>3</sup></u> | <u>Volatile Organic Constituent</u> | <u>mg/m<sup>3</sup></u> |
|-------------------------------------|-------------------------|-------------------------------------|-------------------------|
| Benzene                             | < 2.5                   | 1,3-Dichloropropane                 | < 2.5                   |
| Bromobenzene                        | < 2.5                   | 2,2-Dichloropropane                 | < 2.5                   |
| Bromochloromethane                  | < 2.5                   | 1,1-Dichloropropene                 | < 2.5                   |
| Bromodichloromethane                | < 2.5                   | cis-1,3-Dichloropropene             | < 2.5                   |
| Bromoform                           | < 2.5                   | trans-1,3-Dichloropropene           | < 2.5                   |
| Bromomethane                        | < 2.5                   | Ethylbenzene                        | < 2.5                   |
| n-Butylbenzene                      | < 2.5                   | Hexachlorobutadiene                 | < 2.5                   |
| sec-Butylbenzene                    | < 2.5                   | Isopropylbenzene                    | < 2.5                   |
| tert-Butylbenzene                   | < 2.5                   | p-isopropyltoluene                  | < 2.5                   |
| Carbon tetrachloride                | < 2.5                   | Methylene chloride                  | < 2.5                   |
| Chlorobenzene                       | < 2.5                   | Naphthalene                         | < 2.5                   |
| Chloroethane                        | < 2.5                   | n-Propylbenzene                     | < 2.5                   |
| Chloroform                          | < 2.5                   | Styrene                             | < 2.5                   |
| Chloromethane                       | < 2.5                   | 1,1,1,2-Tetrachloroethane           | < 2.5                   |
| 2-Chlorotoluene                     | < 2.5                   | 1,1,2,2-Tetrachloroethane           | < 2.5                   |
| 4-Chlorotoluene                     | < 2.5                   | Tetrachloroethene                   | < 2.5                   |
| 1,2-Dibromo-3-chloropropane         | < 2.5                   | Toluene                             | < 2.5                   |
| Dibromochloromethane                | < 2.5                   | 1,2,3-Trichlorobenzene              | < 2.5                   |
| 1,2-Dibromoethane                   | < 2.5                   | 1,2,4-Trichlorobenzene              | < 2.5                   |
| Dibromomethane                      | < 2.5                   | 1,1,1-Trichloroethane               | < 2.5                   |
| 1,2-Dichlorobenzene                 | < 2.5                   | 1,1,2-Trichloroethane               | < 2.5                   |
| 1,3-Dichlorobenzene                 | < 2.5                   | Trichloroethene                     | < 2.5                   |
| 1,4-Dichlorobenzene                 | < 2.5                   | Trichlorofluoromethane              | < 2.5                   |
| Dichlorodifluoromethane             | < 2.5                   | 1,2,3-Trichloropropane              | < 2.5                   |
| 1,1-Dichloroethane                  | < 2.5                   | 1,2,4-Trimethylbenzene              | < 2.5                   |
| 1,2-Dichloroethane                  | < 2.5                   | 1,3,5-Trimethylbenzene              | < 2.5                   |
| 1,1-Dichloroethene                  | < 2.5                   | Vinyl chloride                      | < 2.5                   |
| cis-1,2-Dichloroethene              | < 2.5                   | Xylenes                             | < 2.5                   |
| trans-1,2-Dichloroethene            | < 2.5                   | Total Volatiles Response            | < 30                    |
| 1,2-Dichloropropane                 | < 2.5                   |                                     |                         |



m 3/19/92

**LABORATORY REPORT**

TO: Envirocon, Inc.  
ADDRESS: P.O. Box 1154  
Livingston, MT 59047

LAB NO.: 92-8679  
DATE: 03/18/92 rh

**AIR ANALYSIS**

Livingston/BN  
140101-SG-080  
Sampled 02/28/92 @ 1030  
Submitted 03/02/92  
Analyzed 03/11/92

*SVE Levine and Chamber  
off to atmosphere*

**RECEIVED**

MAR 19 1992

ENVIROCON, Inc.  
Livingston, MT

| <u>Volatile Organic Constituent</u> | <u>mg/m<sup>3</sup></u> | <u>Volatile Organic Constituent</u> | <u>mg/m<sup>3</sup></u> |
|-------------------------------------|-------------------------|-------------------------------------|-------------------------|
| Benzene                             | < 2.5                   | 1,3-Dichloropropane                 | < 2.5                   |
| Bromobenzene                        | < 2.5                   | 2,2-Dichloropropane                 | < 2.5                   |
| Bromochloromethane                  | < 2.5                   | 1,1-Dichloropropene                 | < 2.5                   |
| Bromodichloromethane                | < 2.5                   | cis-1,3-Dichloropropene             | < 2.5                   |
| Bromoform                           | < 2.5                   | trans-1,3-Dichloropropene           | < 2.5                   |
| Bromomethane                        | < 2.5                   | Ethylbenzene                        | < 2.5                   |
| n-Butylbenzene                      | < 2.5                   | Hexachlorobutadiene                 | < 2.5                   |
| sec-Butylbenzene                    | < 2.5                   | Isopropylbenzene                    | < 2.5                   |
| tert-Butylbenzene                   | < 2.5                   | p-Isopropyltoluene                  | < 2.5                   |
| Carbon tetrachloride                | < 2.5                   | Methylene chloride                  | < 2.5                   |
| Chlorobenzene                       | < 2.5                   | Naphthalene                         | < 2.5                   |
| Chloroethane                        | < 2.5                   | n-Propylbenzene                     | < 2.5                   |
| Chloroform                          | < 2.5                   | Styrene                             | < 2.5                   |
| Chloromethane                       | < 2.5                   | 1,1,1,2-Tetrachloroethane           | < 2.5                   |
| 2-Chlorotoluene                     | < 2.5                   | 1,1,2,2-Tetrachloroethane           | < 2.5                   |
| 4-Chlorotoluene                     | < 2.5                   | Tetrachloroethene                   | < 2.5                   |
| 1,2-Dibromo-3-chloropropane         | < 2.5                   | Toluene                             | < 2.5                   |
| Dibromochloromethane                | < 2.5                   | 1,2,3-Trichlorobenzene              | < 2.5                   |
| 1,2-Dibromoethane                   | < 2.5                   | 1,2,4-Trichlorobenzene              | < 2.5                   |
| Dibromomethane                      | < 2.5                   | 1,1,1-Trichloroethane               | < 2.5                   |
| 1,2-Dichlorobenzene                 | < 2.5                   | 1,1,2-Trichloroethane               | < 2.5                   |
| 1,3-Dichlorobenzene                 | < 2.5                   | Trichloroethene                     | < 2.5                   |
| 1,4-Dichlorobenzene                 | < 2.5                   | Trichlorofluoromethane              | < 2.5                   |
| Dichlorodifluoromethane             | < 2.5                   | 1,2,3-Trichloropropane              | < 2.5                   |
| 1,1-Dichloroethane                  | < 2.5                   | 1,2,4-Trimethylbenzene              | < 2.5                   |
| 1,2-Dichloroethane                  | < 2.5                   | 1,3,5-Trimethylbenzene              | < 2.5                   |
| 1,1-Dichloroethene                  | < 2.5                   | Vinyl chloride                      | < 2.5                   |
| cis-1,2-Dichloroethene              | < 2.5                   | Xylenes                             | < 2.5                   |
| trans-1,2-Dichloroethene            | < 2.5                   | Total Volatiles Response            | < 30                    |





# ENERGY LABORATORIES, INC.

P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325  
FAX (406) 252-6069 • 1-800-735-4489

m 3/19/92

## LABORATORY REPORT

TO: Envirocon, Inc.  
ADDRESS: P.O. Box 1154  
Livingston, MT 59047

LAB NO.: 92-8680  
DATE: 03/18/92 rh

### AIR ANALYSIS

Livingston/BN  
140101-SG-081  
Sampled 02/28/92 @ 1035  
Submitted 03/02/92  
Analyzed 03/11/92

*SVE Indoor Air Chamber  
Between carbon units*  
**RECEIVED**  
MAR 19 1992  
ENVIROCON, Inc.  
Livingston, Mt

| <u>Volatile Organic Constituent</u> | <u>mg/m<sup>3</sup></u> | <u>Volatile Organic Constituent</u> | <u>mg/m<sup>3</sup></u> |
|-------------------------------------|-------------------------|-------------------------------------|-------------------------|
| Benzene                             | < 2.5                   | 1,3-Dichloropropane                 | < 2.5                   |
| Bromobenzene                        | < 2.5                   | 2,2-Dichloropropane                 | < 2.5                   |
| Bromochloromethane                  | < 2.5                   | 1,1-Dichloropropene                 | < 2.5                   |
| Bromodichloromethane                | < 2.5                   | cis-1,3-Dichloropropene             | < 2.5                   |
| Bromoform                           | < 2.5                   | trans-1,3-Dichloropropene           | < 2.5                   |
| Bromomethane                        | < 2.5                   | Ethylbenzene                        | < 2.5                   |
| n-Butylbenzene                      | < 2.5                   | Hexachlorobutadiene                 | < 2.5                   |
| sec-Butylbenzene                    | < 2.5                   | Isopropylbenzene                    | < 2.5                   |
| tert-Butylbenzene                   | < 2.5                   | p-Isopropyltoluene                  | < 2.5                   |
| Carbon tetrachloride                | < 2.5                   | Methylene chloride                  | < 2.5                   |
| Chlorobenzene                       | < 2.5                   | Naphthalene                         | < 2.5                   |
| Chloroethane                        | < 2.5                   | n-Propylbenzene                     | < 2.5                   |
| Chloroform                          | < 2.5                   | Styrene                             | < 2.5                   |
| Chloromethane                       | < 2.5                   | 1,1,1,2-Tetrachloroethane           | < 2.5                   |
| 2-Chlorotoluene                     | < 2.5                   | 1,1,2,2-Tetrachloroethane           | < 2.5                   |
| 4-Chlorotoluene                     | < 2.5                   | Tetrachloroethene                   | < 2.5                   |
| 1,2-Dibromo-3-chloropropane         | < 2.5                   | Toluene                             | < 2.5                   |
| Dibromochloromethane                | < 2.5                   | 1,2,3-Trichlorobenzene              | < 2.5                   |
| 1,2-Dibromoethane                   | < 2.5                   | 1,2,4-Trichlorobenzene              | < 2.5                   |
| Dibromomethane                      | < 2.5                   | 1,1,1-Trichloroethane               | < 2.5                   |
| 1,2-Dichlorobenzene                 | < 2.5                   | 1,1,2-Trichloroethane               | < 2.5                   |
| 1,3-Dichlorobenzene                 | < 2.5                   | Trichloroethene                     | < 2.5                   |
| 1,4-Dichlorobenzene                 | < 2.5                   | Trichlorofluoromethane              | < 2.5                   |
| Dichlorodifluoromethane             | < 2.5                   | 1,2,3-Trichloropropane              | < 2.5                   |
| 1,1-Dichloroethane                  | < 2.5                   | 1,2,4-Trimethylbenzene              | < 2.5                   |
| 1,2-Dichloroethane                  | < 2.5                   | 1,3,5-Trimethylbenzene              | < 2.5                   |
| 1,1-Dichloroethene                  | < 2.5                   | Vinyl chloride                      | < 2.5                   |
| cis-1,2-Dichloroethene              | < 2.5                   | Xylenes                             | < 2.5                   |
| trans-1,2-Dichloroethene            | < 2.5                   | Total Volatiles Response            | < 30                    |
| 1,2-Dichloropropane                 | < 2.5                   |                                     |                         |





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m3/m/92

**LABORATORY REPORT****TO:** Envirocon, Inc.  
**ADDRESS:** P.O. Box 1154  
Livingston, MT 59047**LAB NO.:** 92-8680 dup  
**DATE:** 03/18/92 rh**RECEIVED**

MAR 19 1992

ENVIROCON, Inc.  
Livingston, Mt.QUALITY ASSURANCE - DUPLICATE ANALYSISLivingston/BN  
140101-SG-081  
Sampled 02/28/92 @ 1035  
Submitted 03/02/92  
Analyzed 03/11/92*SVE Online Unit  
Chamber - Between  
carbon units*

| <u>Volatile Organic Constituent</u> | <u>mg/m<sup>3</sup></u> | <u>Volatile Organic Constituent</u> | <u>mg/m<sup>3</sup></u> |
|-------------------------------------|-------------------------|-------------------------------------|-------------------------|
| Benzene                             | < 2.5                   | 1,3-Dichloropropane                 | < 2.5                   |
| Bromobenzene                        | < 2.5                   | 2,2-Dichloropropane                 | < 2.5                   |
| Bromochloromethane                  | < 2.5                   | 1,1-Dichloropropene                 | < 2.5                   |
| Bromodichloromethane                | < 2.5                   | cis-1,3-Dichloropropene             | < 2.5                   |
| Bromoform                           | < 2.5                   | trans-1,3-Dichloropropene           | < 2.5                   |
| Bromomethane                        | < 2.5                   | Ethylbenzene                        | < 2.5                   |
| n-Butylbenzene                      | < 2.5                   | Hexachlorobutadiene                 | < 2.5                   |
| sec-Butylbenzene                    | < 2.5                   | Isopropylbenzene                    | < 2.5                   |
| tert-Butylbenzene                   | < 2.5                   | p-Isopropyltoluene                  | < 2.5                   |
| Carbon tetrachloride                | < 2.5                   | Methylene chloride                  | < 2.5                   |
| Chlorobenzene                       | < 2.5                   | Naphthalene                         | < 2.5                   |
| Chloroethane                        | < 2.5                   | n-Propylbenzene                     | < 2.5                   |
| Chloroform                          | < 2.5                   | Styrene                             | < 2.5                   |
| Chloromethane                       | < 2.5                   | 1,1,1,2-Tetrachloroethane           | < 2.5                   |
| 2-Chlorotoluene                     | < 2.5                   | 1,1,2,2-Tetrachloroethane           | < 2.5                   |
| 4-Chlorotoluene                     | < 2.5                   | Tetrachloroethene                   | < 2.5                   |
| 1,2-Dibromo-3-chloropropane         | < 2.5                   | Toluene                             | < 2.5                   |
| Dibromochloromethane                | < 2.5                   | 1,2,3-Trichlorobenzene              | < 2.5                   |
| 1,2-Dibromoethane                   | < 2.5                   | 1,2,4-Trichlorobenzene              | < 2.5                   |
| Dibromomethane                      | < 2.5                   | 1,1,1-Trichloroethane               | < 2.5                   |
| 1,2-Dichlorobenzene                 | < 2.5                   | 1,1,2-Trichloroethane               | < 2.5                   |
| 1,3-Dichlorobenzene                 | < 2.5                   | Trichloroethene                     | < 2.5                   |
| 1,4-Dichlorobenzene                 | < 2.5                   | Trichlorofluoromethane              | < 2.5                   |
| Dichlorodifluoromethane             | < 2.5                   | 1,2,3-Trichloropropane              | < 2.5                   |
| 1,1-Dichloroethane                  | < 2.5                   | 1,2,4-Trimethylbenzene              | < 2.5                   |
| 1,2-Dichloroethane                  | < 2.5                   | 1,3,5-Trimethylbenzene              | < 2.5                   |
| 1,1-Dichloroethene                  | < 2.5                   | Vinyl chloride                      | < 2.5                   |
| cis-1,2-Dichloroethene              | < 2.5                   | Xylenes                             | < 2.5                   |
| trans-1,2-Dichloroethene            | < 2.5                   | Total Volatiles Response            | < 30                    |
| 1,2-Dichloropropane                 | < 2.5                   |                                     |                         |





m 3/19/92

**LABORATORY REPORT****TO:** Envirocon, Inc.  
**ADDRESS:** P.O. Box 1154  
Livingston, MT 59047**LAB NO.:** 92-8681  
**DATE:** 03/18/92 rh**AIR ANALYSIS**Livingston/BN  
140101-SG-082  
Sampled 02/28/92 @ 1110  
Submitted 03/02/92  
Analyzed 03/11/92SVE Proximity Shop  
off to atmosphere**RECEIVED**

MAR 19 1992

ENVIROCON, Inc.  
Livingston, MT

| <u>Volatile Organic Constituent</u> | <u>mg/m<sup>3</sup></u> | <u>Volatile Organic Constituent</u> | <u>mg/m<sup>3</sup></u> |
|-------------------------------------|-------------------------|-------------------------------------|-------------------------|
| Benzene                             | <2.5                    | 1,3-Dichloropropane                 | <2.5                    |
| Bromobenzene                        | <2.5                    | 2,2-Dichloropropane                 | <2.5                    |
| Bromochloromethane                  | <2.5                    | 1,1-Dichloropropene                 | <2.5                    |
| Bromodichloromethane                | <2.5                    | cis-1,3-Dichloropropene             | <2.5                    |
| Bromoform                           | <2.5                    | trans-1,3-Dichloropropene           | <2.5                    |
| Bromomethane                        | <2.5                    | Ethylbenzene                        | <2.5                    |
| n-Butylbenzene                      | <2.5                    | Hexachlorobutadiene                 | <2.5                    |
| sec-Butylbenzene                    | <2.5                    | Isopropylbenzene                    | <2.5                    |
| tert-Butylbenzene                   | <2.5                    | p-Isopropyltoluene                  | <2.5                    |
| Carbon tetrachloride                | <2.5                    | Methylene chloride                  | <2.5                    |
| Chlorobenzene                       | <2.5                    | Naphthalene                         | <2.5                    |
| Chloroethane                        | <2.5                    | n-Propylbenzene                     | <2.5                    |
| Chloroform                          | <2.5                    | Styrene                             | <2.5                    |
| Chloromethane                       | <2.5                    | 1,1,1,2-Tetrachloroethane           | <2.5                    |
| 2-Chlorotoluene                     | <2.5                    | 1,1,2,2-Tetrachloroethane           | <2.5                    |
| 4-Chlorotoluene                     | <2.5                    | Tetrachloroethene                   | <2.5                    |
| 1,2-Dibromo-3-chloropropane         | <2.5                    | Toluene                             | <2.5                    |
| Dibromochloromethane                | <2.5                    | 1,2,3-Trichlorobenzene              | <2.5                    |
| 1,2-Dibromoethane                   | <2.5                    | 1,2,4-Trichlorobenzene              | <2.5                    |
| Dibromomethane                      | <2.5                    | 1,1,1-Trichloroethane               | <2.5                    |
| 1,2-Dichlorobenzene                 | <2.5                    | 1,1,2-Trichloroethane               | <2.5                    |
| 1,3-Dichlorobenzene                 | <2.5                    | Trichloroethene                     | <2.5                    |
| 1,4-Dichlorobenzene                 | <2.5                    | Trichlorofluoromethane              | <2.5                    |
| Dichlorodifluoromethane             | <2.5                    | 1,2,3-Trichloropropane              | <2.5                    |
| 1,1-Dichloroethane                  | <2.5                    | 1,2,4-Trimethylbenzene              | <2.5                    |
| 1,2-Dichloroethane                  | <2.5                    | 1,3,5-Trimethylbenzene              | <2.5                    |
| 1,1-Dichloroethene                  | <2.5                    | Vinyl chloride                      | <2.5                    |
| cis-1,2-Dichloroethene              | <2.5                    | Xylenes                             | <2.5                    |
| trans-1,2-Dichloroethene            | <2.5                    | Total Volatiles Response            | <30                     |
| 1,2-Dichloropropane                 | <2.5                    |                                     |                         |





# ENERGY LABORATORIES, INC.

P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325  
FAX (406) 252-6069 • 1-800-735-4489

M 3/19/92

## LABORATORY REPORT

TO: Envirocon, Inc.  
ADDRESS: P.O. Box 1154  
Livingston, MT 59047

LAB NO.: 92-8682  
DATE: 03/18/92 rh

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MAR 19 1992

ENVIROCON, Inc.  
Livingston, Mt.

### AIR ANALYSIS

Livingston/BN  
140101-SG-083  
Sampled 02/28/92 @ 1200  
Submitted 03/02/92  
Analyzed 03/11/92

SVE Permetius Stop  
Between carbon units

| <u>Volatile Organic Constituent</u> | <u>mg/m<sup>3</sup></u> | <u>Volatile Organic Constituent</u> | <u>mg/m<sup>3</sup></u> |
|-------------------------------------|-------------------------|-------------------------------------|-------------------------|
| Benzene                             | < 2.5                   | 1,3-Dichloropropane                 | < 2.5                   |
| Bromobenzene                        | < 2.5                   | 2,2-Dichloropropane                 | < 2.5                   |
| Bromochloromethane                  | < 2.5                   | 1,1-Dichloropropene                 | < 2.5                   |
| Bromodichloromethane                | < 2.5                   | cis-1,3-Dichloropropene             | < 2.5                   |
| Bromoform                           | < 2.5                   | trans-1,3-Dichloropropene           | < 2.5                   |
| Bromomethane                        | < 2.5                   | Ethylbenzene                        | < 2.5                   |
| n-Butylbenzene                      | < 2.5                   | Hexachlorobutadiene                 | < 2.5                   |
| sec-Butylbenzene                    | < 2.5                   | Isopropylbenzene                    | < 2.5                   |
| tert-Butylbenzene                   | < 2.5                   | p-Isopropyltoluene                  | < 2.5                   |
| Carbon tetrachloride                | < 2.5                   | Methylene chloride                  | < 2.5                   |
| Chlorobenzene                       | < 2.5                   | Naphthalene                         | < 2.5                   |
| Chloroethane                        | < 2.5                   | n-Propylbenzene                     | < 2.5                   |
| Chloroform                          | < 2.5                   | Styrene                             | < 2.5                   |
| Chloromethane                       | < 2.5                   | 1,1,1,2-Tetrachloroethane           | < 2.5                   |
| 2-Chlorotoluene                     | < 2.5                   | 1,1,2,2-Tetrachloroethane           | < 2.5                   |
| 4-Chlorotoluene                     | < 2.5                   | Tetrachloroethene                   | < 2.5                   |
| 1,2-Dibromo-3-chloropropane         | < 2.5                   | Toluene                             | < 2.5                   |
| Dibromochloromethane                | < 2.5                   | 1,2,3-Trichlorobenzene              | < 2.5                   |
| 1,2-Dibromoethane                   | < 2.5                   | 1,2,4-Trichlorobenzene              | < 2.5                   |
| Dibromomethane                      | < 2.5                   | 1,1,1-Trichloroethane               | < 2.5                   |
| 1,2-Dichlorobenzene                 | < 2.5                   | 1,1,2-Trichloroethane               | < 2.5                   |
| 1,3-Dichlorobenzene                 | < 2.5                   | Trichloroethene                     | < 2.5                   |
| 1,4-Dichlorobenzene                 | < 2.5                   | Trichlorofluoromethane              | < 2.5                   |
| Dichlorodifluoromethane             | < 2.5                   | 1,2,3-Trichloropropane              | < 2.5                   |
| 1,1-Dichloroethane                  | < 2.5                   | 1,2,4-Trimethylbenzene              | < 2.5                   |
| 1,2-Dichloroethane                  | < 2.5                   | 1,3,5-Trimethylbenzene              | < 2.5                   |
| 1,1-Dichloroethene                  | < 2.5                   | Vinyl chloride                      | < 2.5                   |
| cis-1,2-Dichloroethene              | < 2.5                   | Xylenes                             | < 2.5                   |
| trans-1,2-Dichloroethene            | < 2.5                   | Total Volatiles Response            | < 30                    |
| 1,2-Dichloropropane                 | < 2.5                   |                                     |                         |



M 3/19/92

**LABORATORY REPORT**TO: Envirocon, Inc.  
ADDRESS: P.O. Box 1154  
Livingston, MT 59047LAB NO.: 92-8727  
DATE: 03/17/92 rh**RECEIVED**AIR ANALYSISLivingston/BN  
140101-SG-084  
Sampled 03/01/92 @ 1422  
Submitted 03/03/92  
Analyzed 03/11/92SVE  
WTP Compound  
Sub to Carbon  
unit

MAR 18 1992

ENVIROCON, Inc.  
Livingston, MT

| <u>Volatile Organic Constituent</u> | <u>mg/m<sup>3</sup></u> | <u>Volatile Organic Constituent</u> | <u>mg/m<sup>3</sup></u> |
|-------------------------------------|-------------------------|-------------------------------------|-------------------------|
| Benzene                             | < 2.5                   | 1,3-Dichloropropane                 | < 2.5                   |
| Bromobenzene                        | < 2.5                   | 2,2-Dichloropropane                 | < 2.5                   |
| Bromochloromethane                  | < 2.5                   | 1,1-Dichloropropene                 | < 2.5                   |
| Bromodichloromethane                | < 2.5                   | cis-1,3-Dichloropropene             | < 2.5                   |
| Bromoform                           | < 2.5                   | trans-1,3-Dichloropropene           | < 2.5                   |
| Bromomethane                        | < 2.5                   | Ethylbenzene                        | < 2.5                   |
| n-Butylbenzene                      | < 2.5                   | Hexachlorobutadiene                 | < 2.5                   |
| sec-Butylbenzene                    | < 2.5                   | Isopropylbenzene                    | < 2.5                   |
| tert-Butylbenzene                   | < 2.5                   | p-Isopropyltoluene                  | < 2.5                   |
| Carbon tetrachloride                | < 2.5                   | Methylene chloride                  | < 2.5                   |
| Chlorobenzene                       | 14                      | Naphthalene                         | < 2.5                   |
| Chloroethane                        | < 2.5                   | n-Propylbenzene                     | < 2.5                   |
| Chloroform                          | < 2.5                   | Styrene                             | < 2.5                   |
| Chloromethane                       | < 2.5                   | 1,1,1,2-Tetrachloroethane           | < 2.5                   |
| 2-Chlorotoluene                     | < 2.5                   | 1,1,2,2-Tetrachloroethane           | < 2.5                   |
| 4-Chlorotoluene                     | < 2.5                   | Tetrachloroethene                   | 29 *                    |
| 1,2-Dibromo-3-chloropropane         | < 2.5                   | Toluene                             | < 2.5                   |
| Dibromochloromethane                | < 2.5                   | 1,2,3-Trichlorobenzene              | < 2.5                   |
| 1,2-Dibromoethane                   | < 2.5                   | 1,2,4-Trichlorobenzene              | < 2.5                   |
| Dibromomethane                      | < 2.5                   | 1,1,1-Trichloroethane               | < 2.5                   |
| 1,2-Dichlorobenzene                 | < 2.5                   | 1,1,2-Trichloroethane               | < 2.5                   |
| 1,3-Dichlorobenzene                 | < 2.5                   | Trichloroethene                     | 27                      |
| 1,4-Dichlorobenzene                 | < 2.5                   | Trichlorofluoromethane              | < 2.5                   |
| Dichlorodifluoromethane             | < 2.5                   | 1,2,3-Trichloropropane              | < 2.5                   |
| 1,1-Dichloroethane                  | < 2.5                   | 1,2,4-Trimethylbenzene              | < 2.5                   |
| 1,2-Dichloroethane                  | < 2.5                   | 1,3,5-Trimethylbenzene              | < 2.5                   |
| 1,1-Dichloroethene                  | < 2.5                   | Vinyl chloride                      | < 2.5                   |
| cis-1,2-Dichloroethene              | 96 *                    | Xylenes                             | < 2.5                   |
| trans-1,2-Dichloroethene            | < 2.5                   |                                     |                         |
| 1,2-Dichloropropane                 | < 2.5                   |                                     |                         |

\* Value derived from a 5x dilution of the sample.





**ENERGY LABORATORIES, INC.**P.O. BOX 30916 • 1107 SOUTH BROADWAY • BILLINGS, MT 59107-0916 • PHONE (406) 252-6325  
FAX (406) 252-6069 • 1-800-735-4489

m 3/14/92

**LABORATORY REPORT****TO:** Envirocon, Inc.  
**ADDRESS:** P.O. Box 1154  
Livingston, MT 59047**LAB NO.:** 92-8728  
**DATE:** 03/17/92 rh**AIR ANALYSIS**Livingston/BN  
140101-SG-085  
Sampled 03/01/92 @ 1505  
Submitted 03/03/92  
Analyzed 03/11/92*SVE  
Online Unit  
Chamber  
Ind. to Carbon  
Unit***RECEIVED**

MAR 18 1992

ENVIROCON, INC.  
Livingston, MT

| <u>Volatile Organic Constituent</u> | <u>mg/m<sup>3</sup></u> | <u>Volatile Organic Constituent</u> | <u>mg/m<sup>3</sup></u> |
|-------------------------------------|-------------------------|-------------------------------------|-------------------------|
| Benzene                             | <2.5                    | 1,3-Dichloropropane                 | <2.5                    |
| Bromobenzene                        | <2.5                    | 2,2-Dichloropropane                 | <2.5                    |
| Bromochloromethane                  | <2.5                    | 1,1-Dichloropropene                 | <2.5                    |
| Bromodichloromethane                | <2.5                    | cis-1,3-Dichloropropene             | <2.5                    |
| Bromoform                           | <2.5                    | trans-1,3-Dichloropropene           | <2.5                    |
| Bromomethane                        | <2.5                    | Ethylbenzene                        | <2.5                    |
| n-Butylbenzene                      | <2.5                    | Hexachlorobutadiene                 | <2.5                    |
| sec-Butylbenzene                    | <2.5                    | Isopropylbenzene                    | <2.5                    |
| tert-Butylbenzene                   | <2.5                    | p-Isopropyltoluene                  | <2.5                    |
| Carbon tetrachloride                | <2.5                    | Methylene chloride                  | <2.5                    |
| Chlorobenzene                       | 710 *                   | Naphthalene                         | <2.5                    |
| Chloroethane                        | <2.5                    | n-Propylbenzene                     | <2.5                    |
| Chloroform                          | <2.5                    | Styrene                             | <2.5                    |
| Chloromethane                       | <2.5                    | 1,1,1,2-Tetrachloroethane           | <2.5                    |
| 2-Chlorotoluene                     | 12                      | 1,1,2,2-Tetrachloroethane           | <2.5                    |
| 4-Chlorotoluene                     | <2.5                    | Tetrachloroethene                   | 2.5                     |
| 1,2-Dibromo-3-chloropropane         | <2.5                    | Toluene                             | <2.5                    |
| Dibromochloromethane                | <2.5                    | 1,2,3-Trichlorobenzene              | <2.5                    |
| 1,2-Dibromoethane                   | <2.5                    | 1,2,4-Trichlorobenzene              | <2.5                    |
| Dibromomethane                      | <2.5                    | 1,1,1-Trichloroethane               | <2.5                    |
| 1,2-Dichlorobenzene                 | 234 *                   | 1,1,2-Trichloroethane               | <2.5                    |
| 1,3-Dichlorobenzene                 | 11                      | Trichloroethene                     | <2.5                    |
| 1,4-Dichlorobenzene                 | 33                      | Trichlorofluoromethane              | <2.5                    |
| Dichlorodifluoromethane             | <2.5                    | 1,2,3-Trichloropropane              | <2.5                    |
| 1,1-Dichloroethane                  | <2.5                    | 1,2,4-Trimethylbenzene              | 2.5                     |
| 1,2-Dichloroethane                  | <2.5                    | 1,3,5-Trimethylbenzene              | <2.5                    |
| 1,1-Dichloroethene                  | <2.5                    | Vinyl chloride                      | <2.5                    |
| cis-1,2-Dichloroethene              | <2.5                    | Xylenes                             | <2.5                    |
| trans-1,2-Dichloroethene            | <2.5                    |                                     |                         |
| 1,2-Dichloropropane                 | <2.5                    |                                     |                         |

\* Exceeds linear range of curve.







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m3/19/92

## LABORATORY REPORT

TO: Envirocon, Inc.  
ADDRESS: P.O. Box 1154  
Livingston, MT 59047

LAB NO.: 92-8729  
DATE: 03/17/92 rh

### AIR ANALYSIS

Livingston/BN  
140101-SG-086  
Sampled 03/01/92 @ 1520  
Submitted 03/03/92  
Analyzed 03/11/92

*SVE Specimens  
Shop  
Ind. to Carbon  
units*

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ENVIROCON, Inc.  
Livingston, MT

| <u>Volatile Organic Constituent</u> | <u>mg/m<sup>3</sup></u> | <u>Volatile Organic Constituent</u> | <u>mg/m<sup>3</sup></u> |
|-------------------------------------|-------------------------|-------------------------------------|-------------------------|
| Benzene                             | < 2.5                   | 1,3-Dichloropropane                 | < 2.5                   |
| Bromobenzene                        | < 2.5                   | 2,2-Dichloropropane                 | < 2.5                   |
| Bromochloromethane                  | < 2.5                   | 1,1-Dichloropropene                 | < 2.5                   |
| Bromodichloromethane                | < 2.5                   | cis-1,3-Dichloropropene             | < 2.5                   |
| Bromoform                           | < 2.5                   | trans-1,3-Dichloropropene           | < 2.5                   |
| Bromomethane                        | < 2.5                   | Ethylbenzene                        | < 2.5                   |
| n-Butylbenzene                      | < 2.5                   | Hexachlorobutadiene                 | < 2.5                   |
| sec-Butylbenzene                    | < 2.5                   | Isopropylbenzene                    | < 2.5                   |
| tert-Butylbenzene                   | < 2.5                   | p-Isopropyltoluene                  | < 2.5                   |
| Carbon tetrachloride                | < 2.5                   | Methylene chloride                  | < 2.5                   |
| Chlorobenzene                       | < 2.5                   | Naphthalene                         | < 2.5                   |
| Chloroethane                        | < 2.5                   | n-Propylbenzene                     | < 2.5                   |
| Chloroform                          | < 2.5                   | Styrene                             | < 2.5                   |
| Chloromethane                       | < 2.5                   | 1,1,1,2-Tetrachloroethane           | < 2.5                   |
| 2-Chlorotoluene                     | < 2.5                   | 1,1,2,2-Tetrachloroethane           | < 2.5                   |
| 4-Chlorotoluene                     | < 2.5                   | Tetrachloroethene                   | 350 *                   |
| 1,2-Dibromo-3-chloropropane         | < 2.5                   | Toluene                             | < 2.5                   |
| Dibromochloromethane                | < 2.5                   | 1,2,3-Trichlorobenzene              | < 2.5                   |
| 1,2-Dibromoethane                   | < 2.5                   | 1,2,4-Trichlorobenzene              | < 2.5                   |
| Dibromomethane                      | < 2.5                   | 1,1,1-Trichloroethane               | < 2.5                   |
| 1,2-Dichlorobenzene                 | < 2.5                   | 1,1,2-Trichloroethane               | < 2.5                   |
| 1,3-Dichlorobenzene                 | < 2.5                   | Trichloroethene                     | 3.1                     |
| 1,4-Dichlorobenzene                 | < 2.5                   | Trichlorofluoromethane              | < 2.5                   |
| Dichlorodifluoromethane             | < 2.5                   | 1,2,3-Trichloropropane              | < 2.5                   |
| 1,1-Dichloroethane                  | < 2.5                   | 1,2,4-Trimethylbenzene              | < 2.5                   |
| 1,2-Dichloroethane                  | < 2.5                   | 1,3,5-Trimethylbenzene              | < 2.5                   |
| 1,1-Dichloroethene                  | < 2.5                   | Vinyl chloride                      | < 2.5                   |
| cis-1,2-Dichloroethane              | < 2.5                   | Xylenes                             | < 2.5                   |
| trans-1,2-Dichloroethane            | < 2.5                   |                                     |                         |
| 1,2-Dichloropropane                 | < 2.5                   |                                     |                         |

Exceeds linear range of curve.





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m 3/19/92

## LABORATORY REPORT

TO: Envirocon, Inc.  
ADDRESS: P.O. Box 1154  
Livingston, MT 59047

LAB NO.: 92-8727-29  
DATE: 03/17/92 rh

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MAR 18 1992

ENVIROCON, Inc.  
Livingston, Mt.

### AIR ANALYSIS

Livingston/BN  
Sampled 03/01/92  
Submitted 03/03/92  
Analyzed 03/11/92

| <u>Lab No.</u> | <u>Identification</u>                                 | <u>Total Volatiles<br/>Response, mg/m<sup>3</sup></u> |
|----------------|---|---|
| 92-8727        | 140101-SG-084, Sampled @ 1422 SUE WWT D Compound      | 198   |
| 92-8728        | 140101-SG-085, Sampled @ 1505 Inline Exit Chamber SUE | 1360  |
| 92-8729        | 140101-SG-086, Sampled @ 1520 Gasometric Shop SUE     | 358   |

Inf to:  
Carbon units



m 3/19/92

**RECEIVED****MAR 18 1992****ENVIROCON, Inc.  
Livingston, MT**

March 17, 1992

Envirocon, Inc.  
P.O. Box 1154  
Livingston, MT 59047

On March 3, 1992, these samples, represented by our laboratory numbers 92-8727 to 92-8729 were submitted to our laboratory for analysis.

The test results and quality assurance were reviewed and approved by the undersigned.

Reviewed by: \_\_\_\_\_

